Confidential Business Information

444004	SUPPLY SALES C	OMPANY PURIDARD, OR.	•			UK	151HAL	-
OB NAME	DATE ENTERED	CUSTOMER'S OFFER NO. & DA	ATE .	SHIP CODE Z	CUSTOMERNO.	S.O. CONTROL NO.	000	
FOSS MARITIME ATTN: ACCOUNTS PAYABLE		WILL CALL 3240 N.W. 29TH AV	,	SOURCE	ORDER TAKENBY			
F.O. BOX 83018		PORTLAND, OR.		TAX EXEMPT X	P.P./U.P.S. ZONE			
PORTLAND, OR 97213	Ţ	97210		TERMS O/R	WILL CALL	OUR TRUCK	OTHER	
TRL: 503 285-0631	·		98/10/20 10:26:54		BRANCH 154	SALESMAN	PAGE 1	
ATE SHIPPED SHIPPED EROM/VIA		PPD PPD.CHG COLL SHIPPING OR B/	L NO.		JOB NO.			

ORDER SEQ. UNIT MEAS. PACK CTN. **BIN LOCATION** ITEM NUMBER DESCRIPTION ORDER OT SHIP QTY 34-09-2-0 0390-01354-8 GR-7401 4 PTD E GSKT RIDGLOK CPLG 33-04-4-0 0390-01544-4 GR-7052 4 BLK GRVD 22-1/2 ELBOW ¥ SHIPPING DETAILS: NO. OF BOXES, CARTON, ETC. 10.34 ORDER WEIGHT SHIP WEIGHT



NO. 6536467



November 16, 1998

Foss Maritime Attn: Rafael Caballero 9030 N. W. St. Helens Rd. Portland, OR 97231

RE: D.E.Q. PAPERWORK

Dear Rafael:

Enclosed, please find the following forms that will serve as documentation that you have fulfilled 1998 E.P.A. requirements for the decommissioning and installation completed by Pacific Northwest Services, Inc. at your facility:

D.E.Q. Installation Checklist

D.E.Q. Decommissioning / Service Change Report

D.E.O. Decommissioning Report

Please take a moment to review these documents, fill out all of the highlited areas and forward them to D.E.Q. at the address I have highlited. (P.N.S. has not sent this document in since it requires "owner action".) Remember to retain copies of the completed documents for your records. The D.E.Q. requires that these documents be made available, upon request by the Department, for a minimum of three years. I would encourage you to keep copies at the site.

Feel free to call us if you have any questions regarding these documents.

Sincerely,

Laura Walters

Journ Walters

Admin. Asst.

Encs.

UNDERGROUND STORAGE TANK PROGRAM DECOMMISSIONING TANK STATUS

FOR HOLDERS OF TEMPORARY UST PERMITS

TO PERMITTEE:

FOR EXISTING FACILITY:

Raphael Caballero Foss Maritime Company 9030 NW St. Helens Road PO Box 83018 Portland, OR 97283-0018 Facility ID Number: 7374 KNAPPTON CORPORATION 9030 NW ST HELENS RD PORTLAND, OR 97203

DEQ records indicate the following tanks have not been upgraded to meet one or more of the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection and must be decommissioned in accordance with OAR 340-150-0166 prior to December 22, 1998. Tanks that do not meet the 1998 technical standards by December 22, 1998 must permanently close as of that date or, at a minimum, elect the temporary closure option which requires permanent decommissioning no later than December 22, 1999. Instructions on how to comply with the general permit to decommission conditions and requirements, including temporary and permanent closure or change-in-service, will be mailed to you in late December 1998.

IF INFORMATION ON YOUR TANK STATUS IS CORRECT (i.e. the following tanks do not, or will not meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection by December 22, 1998) DO NOT RETURN THIS FORM. You will be receiving further instructions about decommissioning these tanks in late December 1998.

IF OUR INFORMATION IS INCORRECT AND YOU DO INTEND TO OPERATE ONE OR MORE OF THE FOLLOWING TANKS on or after December 23, 1998, PLEASE COMPLETE PAGE 2, THE GENERAL PERMIT REGISTRATION FORM TO OPERATE. For any tanks listed below, just transfer the Tank ID Number and Tank Permit Number to page 2 and describe the facts pertaining to the installation, upgrading or retrofitting of the subject tanks. If necessary, please make extra copies of page 2 to register more tanks. Both the permittee and tank owner must sign the operating registration form and return it to the Department of Environmental Quality, UST Program, 811 SW 6th Avenue, Portland, OR 97204.

TANKS TO BE DECOMMISSIONED

Tank 1D Number	Tank Permit Number	Tank ID Number	Tank Permit Number	Tank 1D Number	Tank Permit Number
1	AEFG	2	AEFH	3 .	AEFJ
4	AEGK	5	AEGA	1	

Oregon Department of Environmental Quality UNDERGROUND STORAGE TANK DECOMMISSIONING/SERVICE CHANGE REPORT
DATE: 11/12/98 FACILITY NAME: FOSS MARITIME FACILITY ADDRESS: 9030 St Address Rd PHONE: (503) 286-0631
The following information MUST be submitted by the underground storage tank owner, operator or licensed DEQ Supervisor with 30 days following completion of the tank decommissioning or changing tank contents to a non-regulated substance. (OAR 340-15 001 through -150).
The attached supplemental checklist should be prepared by the person performing the decommissioning or service change. T checklist should be provided to DEQ and the tank owner to demonstrate that all required practices were followed.
Ordinarily the checklist is filled out by the DEQ licensed Service Provider or Supervisor. Owners who wish to personal decommission a tank or change service must follow all DEQ and other applicable standards. The owner should contact the DE Regional Office prior to starting the work to receive current copies of underground storage tank regulations.
A. DATES: Decommissioning/Service Change Notice - Date Submitted: 9/14/98 (30 days before work starts). Work Start Telephone Notice - Date Submitted: 11/198 (3 working days before work starts). DEQ Person Notified: 12/198 Date Work Completed: 10/198
Note: Provide the following information if any soil or water contamination is found during the decommissioning or service change Contamination must be reported by the UST owner or operator within 24 hours. The licensed service provider must report contamination within 72 hours after discovery unless previously reported.
Date Contamination Reported: 6/19/28 By: Dick Resulting DEQ Person Notified: TEEG TURBU
Backfill Telephone Notice - Date Called: (before backfilling).
DEQ Person Notified:
B. PERMITS: Note: DEQ permits may be needed where soil or water cleanup is required.
DEQ Water Discharge Permit #: Date:
Disposed to (Location):
DEQ Solid Waste Disposal Permit #: Date:

Page 1 of 4 9/97 UST Decommissioning/Change-in-service REPORT

Soil Disposal or Treatment Location:

C. TANK INFORMATION:

		,	PRODUCT: GAS USED OIL, OTH	oline, diesel, er?	CLOSURE OR	TANK TO BE REPLACED?			
TANK ID#	DEQ-UST PERMIT #	TANK SIZE IN (GALLONS)	PRESENT	NEW	TANK REMOVAL	CLOSURE	OTHER • USE	YES*	NO
#/		6000	Oil		V,				
#2		2000	GAS		ν				V
		<u> </u>							
									_

- Where decommissioned tank(s) are replaced by new underground storage tanks the UST owner or operator must submit a new permit application containing information on the new tanks 30 days before placing them in service.
- Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, 3) tank contains a regulated substance other than petroleum, or 4) tank changed to non-regulated use.

D. DISPOSAL INFORMATION:

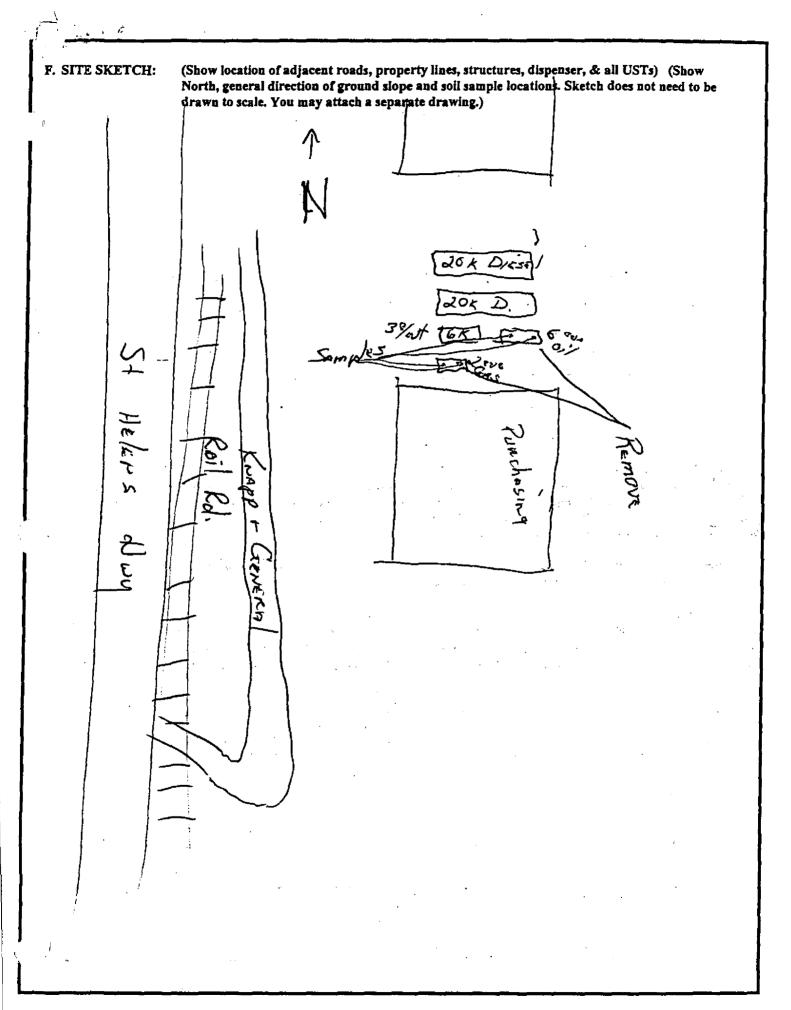
	T.	TANK AND PIPING DISPOSAL METHOD					DISPOSAL LOCATION OF TANK CONTENTS					
TANK ID#	SCRAP	LAND- FILL	OTHER		IDENTIFY LOCATION & PROPERTY OWNER		LI:	QUIDS *		SL	UDGES *	
#/	/		,	9030 Foss	ST Nelens R	1. O	1/6	Perior	16	0:1	Perchin	
#2	V		, ,	11	<i>II</i>		j,	11		1,	<i>'</i> //	
		·										
						4.7°.						
·					i							

^{*} Note: The tank contents, the tank and the piping may be subject to the requirements of Hazardous Waste regulations. If you have questions, contact the DEQ regional office for your area.

E. CONTAMINATION INFORMATION: * Note: Sampling is required if groundwater is encountered. See cleanup rules.

TANK ID#	GROUND * WATER IN PIT ?	PRODUCT ODOR IN SQIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
#/	No			2	Wy Cast
#2	1)	ii .	11	2	11 1

Page 2 of 4 9/97 UST Decommissioning/Change-in-service REPORT



G. WORK PERFORMED BY:	, ingeneral og i skriver i skripter er s vederede det gandellett translation er allet er tillet av state. I	a comparison on the second
DEQ Service Provider's License #:	15634 Construction Co	entractors License #: 0119654
Name:	Pacific Northwest Son	vices, Inc
Telephone:	(305) 425-6955	,
DEQ Decommissioning Supervisor's License #:	11561	
	GARRETT XLA/E	·
Telephone:	360-425-6955	·
DEQ Soil Matrix Service Provider's License #:	· !	(If applicable)
Name:	· · · · · · · · · · · · · · · · · · ·	
Telephone:		· · · · · · · · · · · · · · · · · · ·
DEQ Soil Matrix Supervisor's License #:	·	(If applicable)
Name:		
Telephone:		
 Attach a copy of the laboratory report showing identify sample collection methods, sample located temperature during transportation, types of tests, laboratory name, address and copies of chain-of- If contamination is detected and a Level 2 or lanalysis for the site including methods of determined. REPORT FILING: This report, signed by the tank owner or operators within 30 days after the excavation is backfilled or 	and copies of analytical laboratory report custody forms. Level 3 soil matrix cleanup standard is selining soil type, depth to groundwater, and complete with all applicable attachments or change-in-service is complete. Contact	vater), type of sample container, sample ts, including QA/QC information. Include elected attach a copy of the soil matrix d sensitivity of uppermost aquifer. Its must be filed with the DEQ regional office the DEQ regional office prior to filing this
report where special circumstances exist at the sit		•
-		WESTERN REGION / MEDFORD Phone: Medford (541) 776-6136, Ext. 233
Phone: The Dalles (541) 298-7255 750 H		WESTERN REGION / EUGENE Phone: Eugene (541) 686-7838
	ie: Salem (503) 378-8240	
NOTE: If contamination was found during appropriate DEQ regional office, this report m report, whichever is first.		
I have personally reviewed this report and the attachments a		
Signature: fufael A. Caballer (Owner or Operator)	v facaballo Date: 13	2/18/98

For information: (503) 229-5733 or Toll Free in Oregon UST HELPLINE 1-800-742-7878



LABORATORY REPORT

Pacific Northwest Services P.O.Box 1579 Longview WA 98632

PROJECT NAME/SITE:

Foss Portland

REPORT NUMBER:

24145

PROJECT NUMBER:

1096 Foss

REPORT DATE:

11-2-98

EXTRACTION DATE:

10-29-98 to 10-30-98

PAGES:

l of l

OREGON DEO TPH-HCID

Analyte: Petroleum Hydrocarbon Identification (Gasoline, Petroleum, Heavy Oil)

Field ID	Lab ID	Identification			Surrogate Recovery (%)
		Gasoline	Diesel	Heavy Oil	-
SP2	A512	ND	Detected	ND	*
BLANK	-	ND	ND	ND	-
Reporting Limits (mg/Kg)	-	20	50	50	-

^{*} Surrogate peak not discernible on chromatogram from analyte peak

Surrogate is Chlorooctane

ND = Not Detected (below reporting limit or detection limit)

OREGON DEQ TPH-D

Analyte: Diesel Range Hydrocarbons Quantification for soil

_					
=	Field ID	Lab ID	mg/Kg (ppm)	Surrogate Recovery (%)	
_	SP2	A512	13,900	*	
	BLANK	-	ND	- .	٠
	Reporting Limit	-	20	-	•

^{*} Surrogate peak not discernible on chromatogram from analyte peak

Surrogate is o-Terphenyl

ND = Not Detected (below reporting limit or detection limit)



LABORATORY REPORT

Pacific Northwest Services P.O.Box 1579 Longview WA 98632

PROJECT NAME/SITE:

Foss Maritime

REPORT NUMBER:

24010

PROJECT NUMBER: EXTRACTION DATE:

1096 10-15**-**98 REPORT DATE: PAGES:

10-16-98 1 of 1

OREGON DEQ TPH-HCID

Analyte: Petroleum Hydrocarbon Identification (Gasoline, Petroleum, Heavy Oil)

Field ID	Lab ID		Identificatio	n	Surrogate Recovery (%)
	,	Gasoline	Diesel	Heavy Oil	
1 E	A178	ND	ND	ND	103
ı w	A179	ND	ND	ND	97
2 E	A180	ND	ND	ND	92
2 W	A181	ND	ND	ND	97
SP 1	A182	ND	ND	ND	94
BLANK	-	ND	ND	ND	-
Reporting Limits (mg/Kg)	-	20	50	50	-

Surrogate is Chlorooctane

ND = Not Detected (below reporting limit or detection limit)

Oregon Department of Environmental Quality UNDERGROUND STORAGE TANK DECOMMISSIONING CHECKLIST								
DEQFACILITY NUMBER: 7374	DATE:	9/10	198					
FACILITY NAME: FOSS MARITIME	 -							
FACILITY ADDRESS: 9030 NO. 57 X/e/ens Rd	·							
PHONE: (503) 286-0631				1				
	<u> </u>							
A. SAFETY EQUIPMENT ON JOB SITE:								
Fire Extinguisher: Type/Size: 20" NBC	R	echarge Da	ate:					
Combustible Gas Detector: Model:	Cal	ibration D	ate:					
Oxygen Analyzer: Model:	Cal	ibration D	ate:					
B. DECOMMISSIONING: All Tanks: N/A = Not Applicable Check ($$) Appropriate Box	YES	NO	UNKNOWN	N/A				
1. All electrical equipment grounded and explosion proof?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
2. Safety equipment on job site?	K~	[
3. Overhead electrical lines located?	V_	<u> </u>						
4. Subsurface electrical lines off or disconnected?	/ <u>\</u>							
5. Natural gas lines off or disconnected?	K							
6. No open fires or smoking material in area?	V_	-						
7. Vehicle and pedestrian traffic controlled?	\ <u>\</u>							
8. Excavation material area cleared?	<u></u>							
9. Rainwater runoff directed to treatment area?	<u> </u>] 		/				
10. Drained and collected product from lines?		<u> </u>						
11. Removed product and residual from tank?	V	-						
12. Cleaned tank?	1/							
13. Excavated to top of tank?		<u> </u>						
14. Removed tank fixtures? (pumps, leak detection equipment)	1			{				
15. Removed product, fill and vent lines?			·					
C. TANK ABANDONMENT IN-PLACE:			·					
. •								
16. Sampling plan approved by DEQ? Date: DEQ Staff:								

Page 1 of 3 9/97 UST Decommissioning Checklist

D. DECOMMISSIONING: All Tanks: N/A = Not Applicable Check ($$) Appropriate Box	AYES	NO	UNKNOWN	N/A
17. Contamination concerns fully resolved?	70			1
18. Fill Material? Types				V
E. TANK REMOVAL:			./'	
19. Tank placement area cleared, chocks placed?				
20. Purged or ventilated tank to prevent explosion? Method used: Meter reading: Meter				
21. No chains or steel cables wrapped around tank for removal?				·
22. Tank removed, set on ground, blocked to prevent movement?				
23. Tank set on truck and secured with straps(s)?	0			
24. Tank labeled before leaving site?				
F. SITE ASSESSMENT:		<u> </u>	1	
25. Site assessed for contamination? See OAR 340-122-340 WE Tanks	1/			
F. SITE ASSESSMENT: 25. Site assessed for contamination? See OAR 340-122-340 OVER 10 GRACE TOURS 26. Soil samples taken and analyzed? 20 K DIESELE				
27. Decommissioning/Change-in-Service report sent to DEQ?	2			
28. Was contamination found? Date/Time: / 0//5/98/275	V	``		
29. Was contamination reported to DEQ? By: Mark KREWING DEQ Staff: GREG TURRE				
30. Was hazardous waste determination made for tank contents (Liquids/sludges)?				
31. Disposal location of tank(s) contents. Name: Refining	Date:	. •	·	
Address:		<u>.</u>		-
	Attach dispos	_1		
	Attactt dispos	at tecethr	•	
32. Disposal or recycling location of removed tank(s) and associated piping.	• :	٠.	e .	
Name: Svitzere Stee	Date:			_
Address:		•		
	Attach dispos	al receipt.		
33. If tank(s) are intended to be reused, identify new tank site.				
Name:	Date:		·	_
Address:	Purpose of Re	use:		_

Page 2 of 3 9/97 UST Decommissioning Checklist

DECOMCK.DOC

GOWORK PERFORMED BY: 15034 DEO Service Provider's License #: Name: Telephone: DEQ Decommissioning Supervisor's License #: Telephone: 360-H. CHECKLIST FILING: 1. Provide copy of checklist to the UST owner and operator. 2. Send completed checklist to the DEQ regional office for your area within 30 days after the excavation is backfilled. NOTE: If contamination was found during decommissioning and reported to the appropriate DEO regional office, this report may be submitted with either the first interim cleanup report or the final cleanup report, whichever is first. RETURN COMPLETED AND SIGNED FORM TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY UST PROGRAM REGIONAL OFFICE IN WHICH YOUR FACILITY IS LOCATED. EASTERN REGION / THE DALLES NORTHWEST REGION 2020 SW 4TH AVENUE 400 E SCENIC DRIVE SUITE 400 # 307 PORTLAND, OR 97201-5884 THE DALLES, OR 97058 FAX (503) 229-5471 FAX (541) 298-7330 EASTERN REGION / PENDLETON WESTERN REGION / SALEM **750 FRONT STREET NE** 700 SE EMIGRANT SUITE 120 SUITE 330 **SALEM, OR 97310** PENDLETON, OR 97801 (503) 373-7944 FAX (541) 278-0168 WESTERN REGION / MEDFORD EASTERN REGION / BEND 201 W MAIN STREET 2146 NE 4TH # 104 SUITE 2-D BEND, OR 97701 MEDFORD, OR 97501 FAX (541) 388-8283 FAX (541) 776-6262 WESTERN REGION / EUGENE 1102 LINCOLN STREET SUTTE 210 EUGENE, OR 97401

I have personally reviewed this decommissioning checklist and find it to be true and complete.	
Signature: San Afalo	Date: 11/16/98
(Licensed Supervisor)	
Signature: MCaballero	Date: 12/18/98
(Others or Operator)	

For information: (503) 229-5733 or Toll Free in Oregon UST HELPLINE 1-800-742-7878

Page 3 of 3 9/97 UST Decommissioning Checklist

FAX

(541) 686-7551

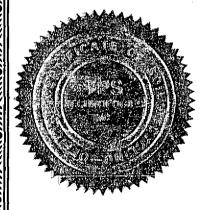
DECOMCK.DOC

Soil Recycling Certificate

THS Technologies Inc. does hereby certify
that 21.79 tons of petroleum - contaminated soil
received from

Foss Maritime
Pacific Northwest Services - Consultant
9030 Northwest St. Helen Road
Portland, OR 97231

Under Manifest/authorization number 09-03274
have been properly recycled to approved regulatory standards
at our Soil Recycling Jacility in Portland, Oregon



Auted this 9th day of November, 19 98
Sworn and Attested by:
THS Technologies Inc.

By: Dym the

98214



Department of Environmental Quality

Western Region Salem Office 750 Front St. NE Suite 120 Salem, OR 97310 (503) 378-8240 (503) 378-3684 TTY

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK - UPGRADE / RETROFIT CHECKLIST

This checklist must be filled out by the DEQ licensed supervisor and submitted as part of the upgrade/retrofit record in accordance with OAR Chapter 340, Divisions 150 and 160. A system upgrade/retrofit must be inspected a minimum of three times and all of the requested information provided to the DEQ. This form may be used by DEQ inspectors for oversight purposes. The DEQ licensed UST Service Provider must have a DEQ licensed Supervisor(s) on site during all upgrade/retrofit operations and activities. This checklist must be signed by an executive officer of the UST Service Provider firm and by the licensed UST Supervisor(s).

The purpose of this form is to certify the proper upgrading and retrofitting of underground storage tank (UST) systems. It will also be used to record any changes to information previously provided on the 30-day upgrade/retrofit notification form. The owner/operator must sign the upgrade certification statement on page 6.

Using this checklist, upgrades/retrofits or installations of cathodic protection (CP) systems should be separately certified by a DEQ licensed CP Supervisor. All required tank and line tightness testing required at the completion of upgrades/retrofits or repairs should be separately certified by a DEQ licensed Tightness Testing Supervisor.

Activities conducted at one UST facility may be reported together by completing pages 1, 5, and 6 only once for the entire facility. However, a separate checklist (pages 2, 3, and 4) must be completed for <u>each UST</u> system (tank and associated piping) where upgrading/retrofitting activities are conducted. The completed form should be mailed to the appropriate DEQ Regional Office within 30 days of completion of the facility upgrade/retrofit.

For information regarding the use or completion of this form, please contact the appropriate DEQ Regional UST Program. Regional office address and telephone information is listed on the back of this page for your convenience.

UPGCHKLST.DOC 9/97

RETURN COMPLETED AND SIGNED FORM TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY UST PROGRAM REGIONAL OFFICE IN WHICH YOUR FACILITY IS LOCATED

NORTHWEST REGION
2020 SW 4TH AVENUE, SUITE 400
PORTLAND, OR 97201-5884
FAX (503) 229-5471
Phone: (503) 229-5263

WESTERN REGION / SALEM 750 FRONT STREET NE, SUITE 120 SALEM, OR 97310 FAX (503) 373-7944 Phone: (503) 378-8240

WESTERN REGION / MEDFORD 201 W MAIN STREET, SUITE 2-D MEDFORD, OR 97501 FAX (541) 776-6262 Phone: (541) 776-6136, Ext. 233

WESTERN REGION / EUGENE 1102 LINCOLN STREET, SUITE 210 EUGENE, OR 97401 FAX (541) 686-7551 Phone: (541) 686-7838 EASTERN REGION / THE DALLES 400 E SCENIC DRIVE, # 307 THE DALLES, OR 97058 FAX (541) 298-7330 Phone: (541) 298-7255

EASTERN REGION / PENDLETON 700 SE EMIGRANT, SUITE 330 PENDLETON, OR 97801 FAX (541) 278-0168 Phone: (541) 276-4063

EASTERN REGION / BEND 2146 NE 4TH, # 104 BEND, OR 97701 FAX (541) 388-8283 Phone: (541) 388-6146

UST HELPLINE: 1-800-742-7878 (Toll Free in Oregon)

Oregon Department of Environmental Quality

INDERGROUND STORAGE TANK - UPGRADE / RETROFIT CHECKLIST

Activities conducted at one UST facility may be reported together by completing pages 1, 5, and 6 once for the entire facility.

DEQ Facility ID number:	7374
DEQ UST Facility Name:	foss Maritime Co.
Facility (location) address:	9030 NW St. Helens Road
	Portland, OR
UST owner/operator name:	fass Maritime Co.
Owner/operator mailing address:	P.O. Box 830/8
	Portland OR 97283
Owner/operator Telephone:	503-286-0631

2. TANK UPGRADE/RETROFIT PERFORM	ED BY:
Service Provider: <u>Mrich Ind. Coatings</u> Address: P.O. Box 772 Hillsboro, OR 97/23	
Telephone: 503.648.9587	
Licensed Supervisor: Patrick fogarty	DEQ License Number: 15290 Lic. Expiration Date: 4-8-99

			-
3.	US	T SYSTEM INFORMATION	
	a.	DEQ tank permit number (letters): AEFG b. Year installed: 1979	
	c.	Tank capacity in gallons: 20,000	
	đ.	Tank material (check): steel fiberglass reinforced plastic (FR other (specify)	-
	e.	Tank construction (check):	:d
1 .	UP	GRADE/RETROFIT INFORMATION	
	a.	Reason for upgrade/retrofit (check all that apply):	•
		to repair structural defects in tank(s)	
		preventive maintenance	
	•	to comply with corrective action requirements	
		other (describe):	
	b.	Type of upgrade/retrofit (circle all that apply):	•
		* installation of internal lining:	
		rubber alkyd epoxy phenolic glass other (specify)	
		* installation of spill and overfill prevention equipment:	
		catchment basin auto shutoff overfill alarm ball float valve	
		drop tube valve other (specify) & spill buckets	
		Sump sensors INTS 1000 Incon Tank Monito	r
ge 2 (of 6	UST Upgrade/Retrofit CHECKLIST 9/	•
·		UPGCHKLST.DC	

Pages 2 through 4 of this checklist must be completed separately for each UST system (tank and associated piping) upgraded or retrofitted at the site. For more than one UST system you may

photocopy this form prior to completing.

	* installation, upgrade/retrofit or repair of release detection equipment (check all that apply):
	automatic tank gauge
· ~	vapor monitoring equipment
٠.	groundwater monitoring equipment
	interstitial monitoring within secondary barrier
	interstitial monitoring within double wall
	automatic line leak detector
	other (specify)
	* tank upgrade (describe if different from above):
	<u>Cathodic protection</u>
	* replacement of metal pipe sections and fittings (indicate new piping material):
	Steel pipe (above ground)
	- Green pipe (none ground)
	* replacement of fiber glass pipe sections and fittings (indicate new piping material):
	replacement of floer glass pipe sections and fittings (indicate new piping material).
	* other piping changes if applicable (describe):
	<u>Fiberglass vent lines</u>
	
c.	Date of completion of upgrade/retrofit indicated above: $10-21-98$
3 of 6	
	UPGCHKLST.DOC

	YES	S NO) N/a
Was the DEQ Regional Office notified at least 30 days in advance of the planned project start date?			
Was the DEQ Regional Office notified 72 hours in advance prior to beginning the upgrade/retrofit? If yes, indicate 3-day number issued: 26-3I-98-42			
Are the UST annual permit fees current?	/		
Was external cathodic protection (CP) installed/upgraded or retrofitted?			
Was a separate CP report submitted or attached? to Follow	V		
Was a CP test station installed?			/
Is a 6-month CP follow-up inspection/test scheduled?			
Projected inspection date:			/
Was a site assessment conducted?			V
Was contamination, including simple overfill, encountered and was it reported to DEQ? If so, indicate DEQ LUST number issued:			V
Were internal inspections of all USTs completed before lining began on any UST?	V		
Have the results of the internal tank inspections been submitted to and/or discussed with DEQ?		Wasan	A
If there were holes in any of the USTs, has a SUSPECTED release been reported to DEQ? If yes, indicate date reported:		VNC.	045
Was the system tight-tested before placing back into service?			/
Do all tank and piping materials comply with 40 CFR 280.20 as modified by OAR Chapter 340, Division 150?			/
Have all items checked above been installed, upgraded or retrofitted in accordance with all codes, manufacturer's requirements and federal and state regulations?			
Has the UST system owner/operator been provided with written documentation of the item(s) installed, upgraded or retrofitted and has the owner/operator been instructed to			

CHECKLIST (Check YES or NO. Where a specific item is "not applicable" to the simution,

please check the n/a box.)

Page 4 of 6

preserve these records?

UST Upgrade/Retrofit CHECKLIST

9/97

phot	tocopy	y this form prior to comple	eting.		
3.	US	ST SYSTEM INFORMA	TION		
	a.	DEQ tank permit number	(letters): <u>AEFH</u>	b. Year i	nstalled: 1979
	c,	Tank capacity in gallons:	20,000		
	d.	Tank material (check):	steel	fiberglass rein	forced plastic (FRP)
v.			composite	other (specify)	
	e.	Tank construction (check):	single wall	double wall	partitioned
					•
					•
4.	UP	GRADE/RETROFIT IN	FORMATION		
	a.	Reason for upgrade/retro	ofit (check all that apply	y):	
		to comply with 1	998 upgrading requiren	nents for existing UST system	ns
		•	al defects in tank(s)		
		preventive mainte	enance		
		to comply with co	orrective action require	ments	
		other (describe):_			
	b .	Type of upgrade/retrofit	(circle all that apply):		
		* installation of internal	lining:		•
		rubber alkyd	epoxy phenolic	glass other (specify)	
		* installation of spill and	l overfill prevention eq	uipment:	
		catchment basin	auto shutoff	overfill alarm bal	l float valve
		drop tube valve	other (specify) _	spill buckets	
				sump sensors	e le dia l'Esa
ge 2 o	f 6		ST Upgrade/Retrofit CHE		unk Monitor 9/97
<i>,</i> – •	-	· ·	* O		UPGCHKLST.DOC

Pages 2 through 4 of this checklist must be completed separately for each UST system (tank and associated piping) upgraded or retrofitted at the site. For more than one UST system you may

,	* installation, upgrade/retrofit or repair of release detection equipment (check all that apply):
	automatic tank gauge
•	vapor monitoring equipment
	groundwater monitoring equipment
	interstitial monitoring within secondary barrier
	interstitial monitoring within double wall
	automatic line leak detector
	other (specify)
	* tank upgrade (describe if different from above):
	<u>Cathodic</u> protection
	· · · · · · · · · · · · · · · · · · ·
	* replacement of metal pipe sections and fittings (indicate new piping material):
	· · · · · · · · · · · · · · · · · · ·
	Environ funderground) Steel pipe (above ground)
	* replacement of fiber glass pipe sections and fittings (indicate new piping material):
 	
	* other piping changes if applicable (describe):
•	Fiberglass vent lines
	الاد ما ، تاگ
c.	Date of completion of upgrade/retrofit indicated above: 10-2 -98
P 3 of 6	UST Upgrade/Retrofit CHECKLIST 9/97 UPGCHKLST.DOC
	V. 4421222 - 1844

	YES	NO	N/A
Was the DEQ Regional Office notified at least 30 days in advance of the planned project start date?			
Was the DEQ Regional Office notified 72 hours in advance prior to beginning the upgrade/retrofit? If yes, indicate 3-day number issued: 26-31-98-42			
Are the UST annual permit fees current?	1		
Was external cathodic protection (CP) installed/upgraded or retrofitted?]	
Was a separate CP report submitted or attached? to Follow	/		
Was a CP test station installed?			/
Is a 6-month CP follow-up inspection/test scheduled?			
Projected inspection date:			
Was a site assessment conducted?	· .		1/
Was contamination, including simple overfill, encountered and was it reported to DEQ? If so, indicate DEQ LUST number issued:			V
Were internal inspections of all USTs completed before lining began on any UST?	V		
Have the results of the internal tank inspections been submitted to and/or discussed with DEQ?		HAVA	
If there were holes in any of the USTs, has a SUSPECTED release been reported to DEQ? If yes, indicate date reported:		NO	055
Was the system tight-tested before placing back into service?			/
Do all tank and piping materials comply with 40 CFR 280.20 as modified by OAR Chapter 340, Division 150?			/
Have all items checked above been installed, upgraded or retrofitted in accordance with all codes, manufacturer's requirements and federal and state regulations?			
Has the UST system owner/operator been provided with written documentation of the item(s) installed, upgraded or retrofitted and has the owner/operator been instructed to preserve these records?			

CHECKLIST (Check YES or NO. Where a specific item is "not applicable" to the situation,

5.

please check the n/a box.)

c. T	DEQ tank permit number (letters): AEFT b. Year installed:	(FRP)
d. T	Tank material (check):	
	composite other (specify)	
e. T	Tank construction (check): single wall double wall parti	tioned
UPGR	RADE/RETROFIT INFORMATION Reason for upgrade/retrofit (check all that apply):	
	to repair structural defects in tank(s)	
	preventive maintenance	
•	to comply with corrective action requirements other (describe):	
•	Caller (Goodstoot).	
b. 7	Type of upgrade/retrofit (circle all that apply):	
	* installation of internal lining:	
	rubber alkyd epoxy phenolic glass other (specify)	·
1	* installation of spill and overfill prevention equipment:	
	catchment basin auto shutoff overfill alarm ball float valve)
	drop tube valve other (specify) Spill buckets Sump Sensors	_
	Sump Sensors INTS 1000 Incon Tank Hon	

Pages 2 through 4 of this checklist must be completed separately for each UST system (tank and associated piping) upgraded or retrofitted at the site. For more than one UST system you may

* installation, upgrade/retrofit or repair of release detection equipment (cl	heck all that apply):
automatic tank gauge	
vapor monitoring equipment	
groundwater monitoring equipment	
interstitial monitoring within secondary barrier	
interstitial monitoring within double wall	•
automatic line leak detector	
other (specify)	
* tank upgrade (describe if different from above):	
cathodic Protection	·
* replacement of metal pipe sections and fittings (indicate new piping mater	rial):
Environ (underground) Steel pipe (above ground)	
 replacement of fiber glass pipe sections and fittings (indicate new piping replacement) 	naterial):
	,
* other piping changes if applicable (describe):	
Fiberglass vent lines	<u></u>
	
10-21-00	
c. Date of completion of upgrade/retrofit indicated above: $10-21-98$	
of 6 UST Upgrade/Retrofit CHECKLIST	9/97 UPGCHKLST.DOC
•	

	YES	NC	N/A
Was the DEQ Regional Office notified at least 30 days in advance of the planned project start date?			
Was the DEQ Regional Office notified 72 hours in advance prior to beginning the upgrade/retrofit? If yes, indicate 3-day number issued: <u>26-3T-98-42</u>			
Are the UST annual permit fees current?	/		
Was external cathodic protection (CP) installed/upgraded or retrofitted?			
Was a separate CP report submitted or attached? to follow			
Was a CP test station installed?			/
Is a 6-month CP follow-up inspection/test scheduled?			
Projected inspection date:			/
Was a site assessment conducted?			V
Was contamination, including simple overfill, encountered and was it reported to DEQ? If so, indicate DEQ LUST number issued:			~
Were internal inspections of all USTs completed before lining began on any UST?	V		
Have the results of the internal tank inspections been submitted to and/or discussed with DEQ?		Wass	u
If there were holes in any of the USTs, has a SUSPECTED release been reported to DEQ? If yes, indicate date reported:		NO	0125
Was the system tight-tested before placing back into service?			/
Do all tank and piping materials comply with 40 CFR 280.20 as modified by OAR Chapter 340, Division 150?			/
Have all items checked above been installed, upgraded or retrofitted in accordance with all codes, manufacturer's requirements and federal and state regulations?	1		
Has the UST system owner/operator been provided with written documentation of the tem(s) installed, upgraded or retrofitted and has the owner/operator been instructed to preserve these records?			

CHECKLIST (Check YES or NO. Where a specific item is "not applicable" to the situation,

Page 4 of 6

5.

please check the n/a box.)

AS-BUILT SITE PLAN Parking Lot

(always contact local authorities regarding permit requirements)

Page 5 of 6

UST Upgrade/Retrofit CHECKLIST

9/97

UPGCHKLST.DOC

PROJECT NUMBER: 44 1 20,000

Foss Maritime

									<u> </u>	
	Lo	œ	Тор	R3/4	RSL	R1/4	Bot	L1/4	LSL	L3/4
					77	7.7	7.4			
	2				79	7.7	78			
	3			Į.	79	4.0	79			
	4				79	7,8	7,4			
	5	\neg			7.6	50	29			
	6				7.9	7.4	7.7			
	7				28	29	7.5			
	8				40	77	2.9.			
	9				7 <u>8</u> 1	77	76			
	10				77	13	74			
	11	\perp			29	29 7	19			
	12	\perp	\perp		271	9	49/			
1	13	\perp			7.7	18	19		_	
-	14	\perp	_		7,50	7,7	79			
1	15	\perp			14	74/	7,7			
L	16	\downarrow	\perp		7.46	901	9			
L	<u>17</u>	\perp	\perp		4	1917	19			
L	<u> 18</u>	\downarrow		$-\frac{D}{2}$	4/7	16/12	41			
Ŀ	<u> 19</u>	\downarrow		الجا	74		291		_	
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	22		- -	- 7		4	\mathcal{G}_{\parallel}	_ -		
_2	3	_	- -	-12	99	7	\mathcal{G}_{-}			{
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2	6		-	/	47.	441	-			
2			+	1/7	?/ /7,4	b/ 4] -	- -		_
2			+	2	79-4	44-4	<u>4</u> —	+		_
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<u>31</u>	- 1			7,0	-\ -	-11-14	4			_
<u>OT</u>	AL			243	1 242	2.7 243	.4			
			mt.i.	_1	- 0 -		- T-00		~	

	4	
Fill End	Horizontal	Vertical
1	7.7	2,7
2	7,4	29
3	29	76
4	40	7,9
5	29	\mathcal{I}
6	7,9	7.8
7	78	7,2
8	2,8	7,9
9	16	79
10	80	40
11	·	
TOTAL	78.6	78.3

Other End	Horizontal	Vertical
1	7,9	7,8
2	40	29
3	29	1,8
4	18	29
5	29	2,6
6	2,9	7,8
7	50	79
8	7,9	7,6
9	7,5	7,9
10	2.9	8,0
11		
TOTAL	79.0	78.6

Tot. of Gauges % No. of Gauges = Ave. Thickness 1043.7 % 133 = 7.8

Average Thicknes	ss &	Design Thickness	=	Percent	of	Design	Thickness
78	9.	80 mm	_	975	. %	•	

Certified by UTG Level 1: ACCEPT OR REJECT

Loc	Тор	R3/4	RSL	R1/4	Bot	L1/4	LSL	L3/4	7	Fill End	Horizontal	Vertical
1				7.4	80	7.9			7	,	7.9	7,9
2				7,\$	7,9	7.4			7	2	180	40
3				7,9	79	7.4		· · · ·	7	3	29	7.4
4				7.7	7,6	79			1	4	79	7,8
5_				79	7/3	7.9		## " · · · · · · · · · · · · · · · · · ·	7	5	7,5	7.5
6				7.3	74	7.9		_		6	17.9	207
7				79	7.9	7.4				7	8,0	40
8				79.1	80	7.91				8	17,2	27,
9				24	79	7.6				9	728	1,8
10	_			79	7.1	741		· · ·		10	180	1.9
11				20	\mathcal{U}	30		· ·		11		
12	\perp			7.7	431	94			ı	TOTAL	78.9	78.6
13				44	/}}}	41			F			
14				3/1	901	44			ľ	Other End	Horizontal	Vertical
15	_			-	750	4			F		70	70
6	- -			/2 /-	50	///			-	1	4/	76
7	+			77 -	5d	/2 /4			ł	2	7.3	-56
9						19			-	3 4	16	59
0		\dashv		2.4	分长	10			H	5	3.9	7.4
1	\top		14	50	7.9	7.7			1	6	7,4	7.9.
2			14	2017	417	(8)			F	7	7.9	7,81
3			17	191-	191-	7.4				8	8,0	7, 7,
				916	07	7.7				9	7.9	7,8
5			<u> </u>	4512	97	H				10	7.9	2,8
			7	267	2 7	79				11	, , ,	
			12	917	3 7	91			T	OTAL	78.8 1	78.3
			17	96/7	9 9	0						
			17,	913/	2/7	91_				_	% No. of Ga	_
	<u> </u>		17	417	18	(0)				1045.1	% <u>/3</u>	<u>3 = 7</u>
	ļ		17.	919	47	9_						
L	<u> </u>		242	9 244	5 243	./]						
		kness	s % D	esign	Thi	cknes	s = F	ercer	at	of Desi	ign Thick	mess
<u>7.</u>	9		_ &	8.0	mm		_ = _	98.	<u> 2 </u>	7/0	····	

ULTRASONIC THICKNESS GAUGING REPORT

PROJECT NUMBER: 98214
TANK HUMBER: #3 6,000

 $\widetilde{\Omega}$

	Loc		Тор	R3/4	RSL	R1/4	В	ot	L1/4	LSL	L	3/4
	1					lac ?	6	B	69			
	2					68	56	B	69			
	3			ZÍ.		Rec	B	b	64			
i	4	\perp				69	Or	5	67			
	5					ado	Oil	C	6.7			
	6					6B	bi	7	09			
	7_	\perp				619	QH.	5/	g. Z		1	
1	8	\perp				67	Pi	7/	2071		igspace	
-	9	\perp	\dashv			Qq.	160	2	006			
-	10	\perp				(05	loc.	Щ	25		<u> </u>	
-	11	\perp				e.]_	Di	4	QJ,		<u> </u>	
-	12	1	\bot		(PL }	Pole	,	12		<u> </u>	_
L	13	_	1	·		013	[ez]	\mathcal{A}_{i}	00		ļ	
L	14	ot	\perp			QY	69	, 4	28			_
L	15	_	\perp			2/2	φ£	1/4	27			_
	16		\perp		<u> [</u>	2	62	14	8		! 	_
Ŀ	17		\perp		6	21/	6.6	14	B.			_
Ŀ	18		1					_				_
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2	1		↓_		_			_				_
2	2	<u></u>	 	_				_	_		<u></u> -	_
_2	3		_					_	_			_
2	4	-	<u> </u>									4
2	5		<u> </u>					Ĺ				4
2	6		<u> </u>									4
2	7											_
28	3]
29										_		1
<u>3(</u>	\perp				_			<u> </u>		\bot	<u>.</u>	1
<u>31</u>						_						
OT.	AL				115	0 //:	3.7	115.	8			[

Fill End	Horizontal	Vertical
11	600	16,5
2	6.9	6,4
3	6.9	6,8
4	68	609
5	6,7,	6.7
6	168	6,7
7	614	607
8	6.7	0.95
9		
10		
11		
TOTAL	54.5	54.0

<u></u>		
Other End	Horizontal	Vertical
	7 -	7 7
1	61	916
2	6.7	6.8
3	616	68
4	(01)	619
5	618	619
6	lock	65.
7	(R.B	618
8 _	69	1007
9		
10		
11		
TOTAL	53.8	54.0

Tot. of Gauges % No. of Gauges = Ave. Thickness 560.8 % 83 = 6.8

Average Thickness	옿	Design Thickness	=	Percent of Design Thickness
6.8	용	6.9mm	=	98.5%

Certified by UTG Level 1: ACCEPT REJECT OR REJECT

AS-BUILT SITE PLAN 6. Mark Parking Lot Buile 20000

(always contact local authorities regarding permit requirements)

Page 5 of 6

UST Upgrade/Retrofit CHECKLIST

9/97

UPGCHKLST.DOC

INSTALLER'S OATH: I certify that I have been the Oregon DEQ licensed supervisor present on site during the above listed upgrade/retrofit/replacement activities and to the best of my knowledge they have been conducted in compliance with all state and federal laws, regulations and industry standards and procedures pertaining to underground storage tanks. I further certify that the information contained in this report and checklist is true to the best of my belief and knowledge.
Installer: Patrick Fogarty ratual togarty
Position: Torqua N
Company: UICC Date: 10-21-98
UST Service Provider Firm, Executive Officer: Traci Ulrich Traci Ulleich 10.28.98 print name signature date
UST FACILITY OWNER/OPERATOR UPGRADE CERTIFICATION STATEMENT: I hereby certify that the information provided on this checklist concerning the upgrade status of my tank system(s) is accurate. Lafael A. Caballero Laballero 11/10/98 print name signature date
OWNER'S FINANCIAL RESPONSIBILITY INFORMATION SECTION
The tank owner has financial responsibility, if applicable, in accordance with OAR 340-150-004. Please specify:
Method of financial responsibility:
Insurer: Policy Number:
This form must be mailed to the appropriate DEQ Regional Office within 30 days after the upgrade/retrofit project is completed. For information, call the appropriate DEQ Regional Office or the toll free number, 1-800-742-7878.
DEQ INSPECTIONS: This form may be used by DEQ Inspectors for oversight purposes. A DEQ inspector is not required to inspect the upgrade/retrofit. A DEQ inspector may not be on site or available during all of the inspections listed on this form. In the case of an oversight inspection, the DEQ inspector should check all boxes that are appropriate for the inspection(s) and forward a copy to the appropriate Regional Office for the facility file.
DEQ Inspector's Signature Inspection Date(s)
Page 6 of 6 UST Upgrade/Retrofit CHECKLIST 9/97 UPGCHKLST.DOC



October 28, 1998

Foss Maritime Company ATTN: Mr. Rafael Caballero P.O. Box 83018 Portland, OR 97283-0018

Dear Mr. Caballero:

Enclosed is the 'Underground Storage Tank - Upgrade / Retrofit Checklist' required by D.E.Q. for the tank lining system installed at your site on St. Helens Road in Portland, Oregon. Please fill in any missing information, on all pages where indicated with highlighter, and mail (with the enclosed ultrasonic thickness gauging reports) to Department of Environmental Quality at:

DEQ / Northwest Region 2020 SW 4Th Avenue, Suite 400 Portland, OR 97201-5884

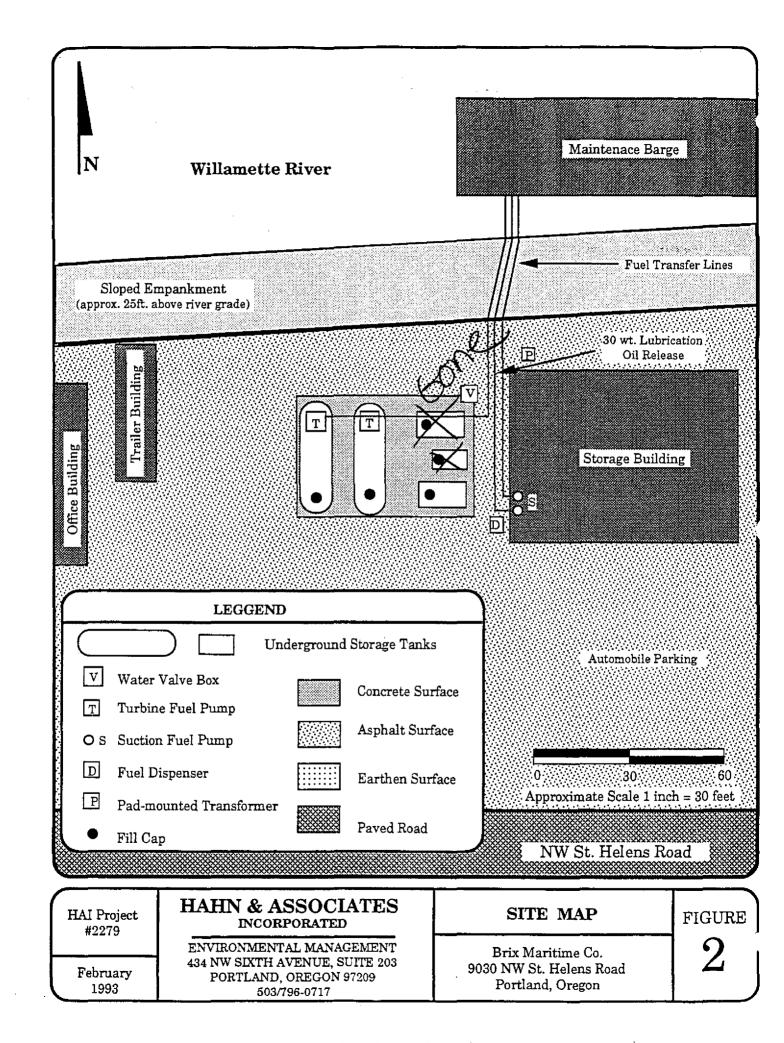
Additional copies of the Checklist, ultrasonic gauging reports, and other applicable paperwork will be mailed directly to you, under separate cover, to retain with your permanent UST records.

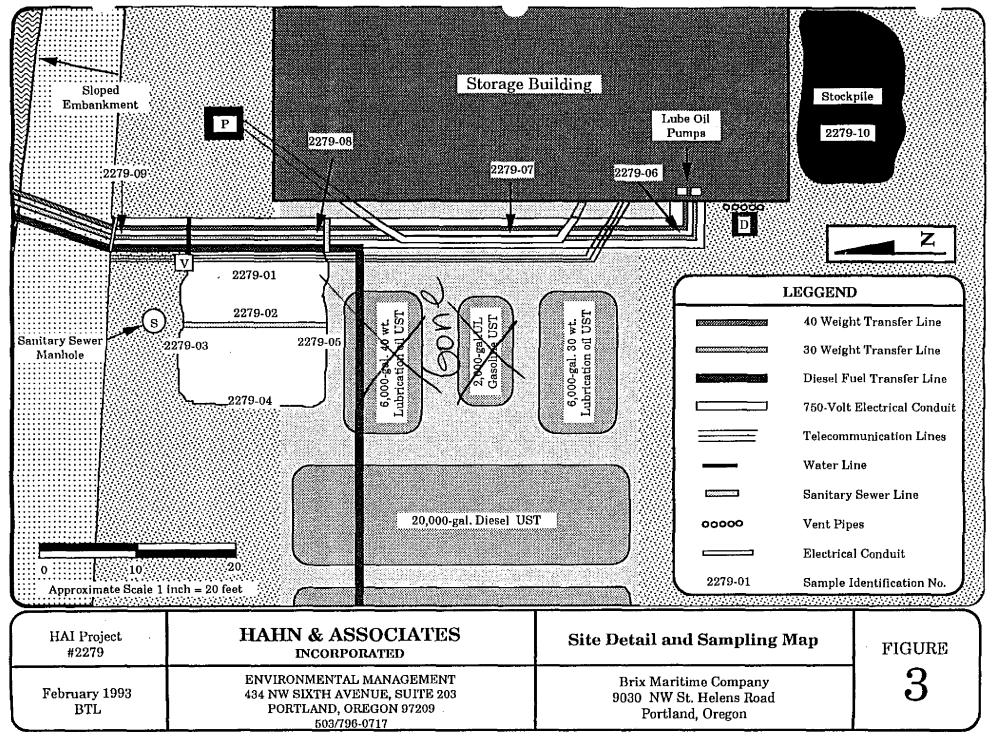
Should you have any questions or concerns please contact me at 1-800-648-9587.

Thank you, Traci L'Uleich

Traci L. Ulrich

enclosures





00014057

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK - UPGRADE / RETROFIT CHECKLIST

Activities conducted at one UST facility may be reported together by completing pages 1, 5, and 6 once for the entire facility.

DEQ Facility ID number:	7374
DEQ UST Facility Name:	FOSS MARITIME
Facility (location) address:	9030 St. Welfals Rd.
	Pt/d, Or. 97231
UST owner/operator name:	Foss Maritime Co
Owner/operator mailing address:	P.O. Box 83018
	Portland, OR 97283-0018
Owner/operator Telephone:	(503) 978-6544

2. TANK UPGRADE/RETROFIT PERFORMED BY:	
Service Provider: TEC, F. T. W. W. SER DEQ License Number: 15034 Address: 1035-A Vandencark (Jay Lic. Expiration Date: 2/7/99 Canquie W. M. 9863) Telephone: (360) 425-6955	
Licensed Supervisor: DEQ License Number: S62 Lic. Expiration Date: 2/29/08	

Page 1 of 6

UST Upgrade/Retrofit CHECKLIST

9/97 T ST DOC

3. UST SYSTEM INFORMATION b. Year installed: 1979 DEQ tank permit number (letters): AEFH Tank capacity in gallons: 20,000 fiberglass reinforced plastic (FRP) đ. Tank material (check): other (specify) composite _____ double wall _____ partitioned Tank construction (check): single wall 4. UPGRADE/RETROFIT INFORMATION Reason for upgrade/retrofit (check all that apply): a. to comply with 1998 upgrading requirements for existing UST systems to repair structural defects in tank(s) preventive maintenance to comply with corrective action requirements other (describe): b. Type of upgrade/retrofit (circle all that apply): installation of internal lining: other (specify) rubber alkyd epoxy_) phenolic glass installation of spill and overfill prevention equipment: overfill alarm ball float valve catchment basin auto shutoff other (specify) drop tube valve UST Upgrade/Retrofit CHECKLIST 9/97 ¿e 2 of 6 UPGCHKLST.DOC

Pages 2 through 4 of this checklist must be completed separately for each UST system (tank and associated piping) upgraded or retrofitted at the site. For more than one UST system you may

photocopy this form prior to completing.

<u></u>	opy this form prior to completing.	
3.	UST SYSTEM INFORMATION	
	a. DEQ tank permit number (letters): <u>AEGK</u> b. Year installed	: 197.9
	c. Tank capacity in gallons: 6,000	
	d. Tank material (check): steel fiberglass reinforced p	
		_ partitioned
4.	UPGRADE/RETROFIT INFORMATION	
	a. Reason for upgrade/retrofit (check all that apply):	
	b. Type of upgrade/retrofit (circle all that apply): installation of internal lining: rubber alkyd epoxy phenolic glass other (specify)	
	installation of spill and overfill prevention equipment: catchment basin auto shutoff overfill alarm ball float drop tube valve other (specify)	valve
₹e 2		9/97 GCHKLST.DOC

rages 2 through 4 of this checklist must be completed separately for each UST system (tank and associated piping) upgraded or retrofitted at the site. For more than one UST system you may

		drop tube valve other (specify)
	,	* installation of spill and overfill prevention equipment: catchment basin auto shutoff overfill alarm ball float valve
		* installation of internal lining: rubber alkyd epoxy phenolic glass other (specify)
	b.	Type of upgrade/retrofit (circle all that apply):
		preventive maintenance to comply with corrective action requirements other (describe):
T.	a.	Reason for upgrade/retrofit (check all that apply): to comply with 1998 upgrading requirements for existing UST systems to repair structural defects in tank(s)
• .	UP	PGRADE/RETROFIT INFORMATION
	e.	Tank construction (check): single wall double wall partitions
	đ.	Tank material (check): steel fiberglass reinforced plastic (FR other (specify)
;	. c.	Tank capacity in gallons: 20,000
	a.	DEQ tank permit number (letters): <u>AEFG</u> b. Year installed: 1979
•	US	ST SYSTEM INFORMATION

ef 6	UST Upgrade/Retrofit CHECKLIST 9/97 UPGCHKLST.DOC
c. Date	of completion of upgrade/retrofit indicated above: 1//13/98
	
	Stee
	other piping changes if applicable (describe):
	replacement of fiber glass pipe sections and fittings (indicate new piping material):
	· ·
	LNVIR.OD Y 131 YEAR
	replacement of metal pipe sections and fittings (indicate new piping material):
	•
	* tank upgrade (describe if different from above): Spill Buckels
	C.11 D. 1 K
	other (specify)
	interstitial monitoring within double wall
	interstitial monitoring within secondary barrier interstitial monitoring within double wall
	groundwater monitoring equipment
	vapor monitoring equipment
	automatic tank gauge
	* installation, upgrade/retrofit or repair of release detection equipment (check all that apply):

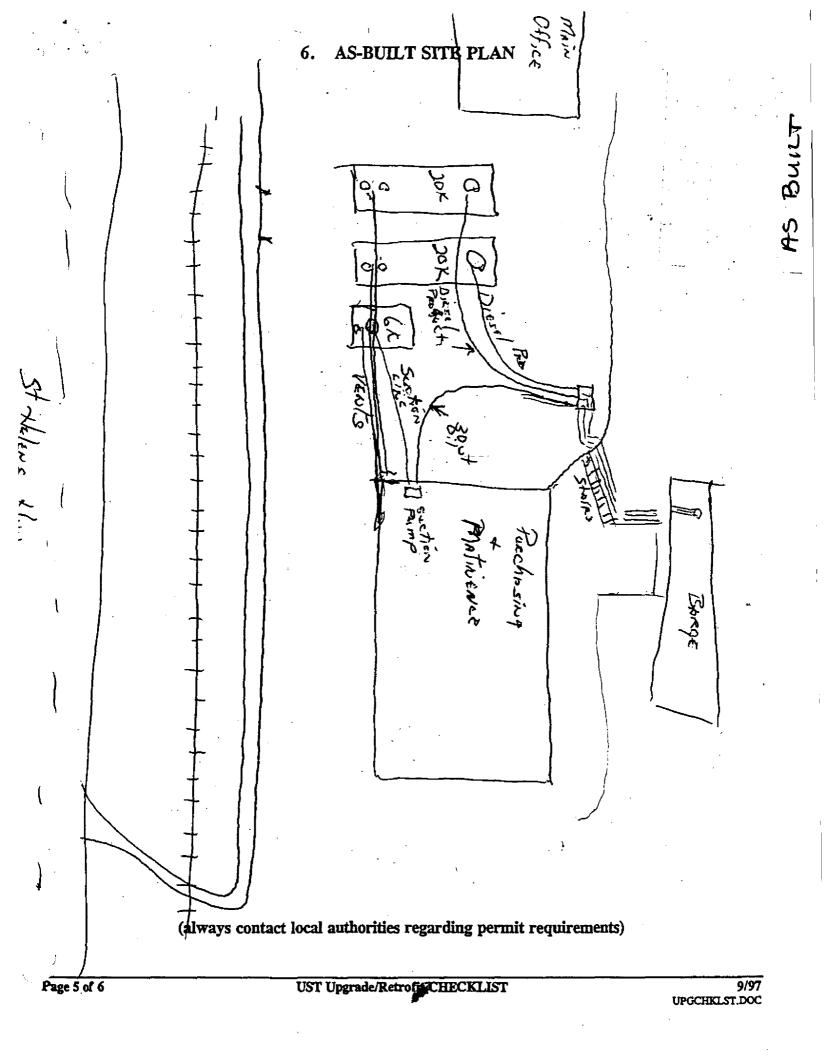
'e 3 of 6

	YES	NO	N/A
Was the DEQ Regional Office notified at least 30 days in advance of the planned project start date?	V		
Was the DEQ Regional Office notified 72 hours in advance prior to beginning the upgrade/retrofit? If yes, indicate 3-day number issued:			
Are the UST annual permit fees current?	V		•
Was external cathodic protection (CP) installed/upgraded or retrofitted?			
Was a separate CP report submitted or attached?			V
Was a CP test station installed?			1/
Is a 6-month CP follow-up inspection/test scheduled?		,	
Projected inspection date:			
Was a site assessment conducted?			V
Was contamination, including simple overfill, encountered and was it reported to DEQ? If so, indicate DEQ LUST number issued: 26-93-009	V		
Were internal inspections of all USTs completed before lining began on any UST?	1		u
Have the results of the internal tank inspections been submitted to and/or discussed with DEQ?			1
If there were holes in any of the USTs, has a SUSPECTED release been reported to DEQ? If yes, indicate date reported:		7	
Was the system tight-tested before placing back into service?	V		
Do all tank and piping materials comply with 40 CFR 280.20 as modified by OAR Chapter 340, Division 150?	V		
Have all items checked above been installed, upgraded or retrofitted in accordance with all codes, manufacturer's requirements and federal and state regulations?			
Has the UST system owner/operator been provided with written documentation of the item(s) installed, upgraded or retrofitted and has the owner/operator been instructed to preserve these records?	2		

CHECKLIST (Check YES or NO. Where a specific item is "not applicable" to the situation,

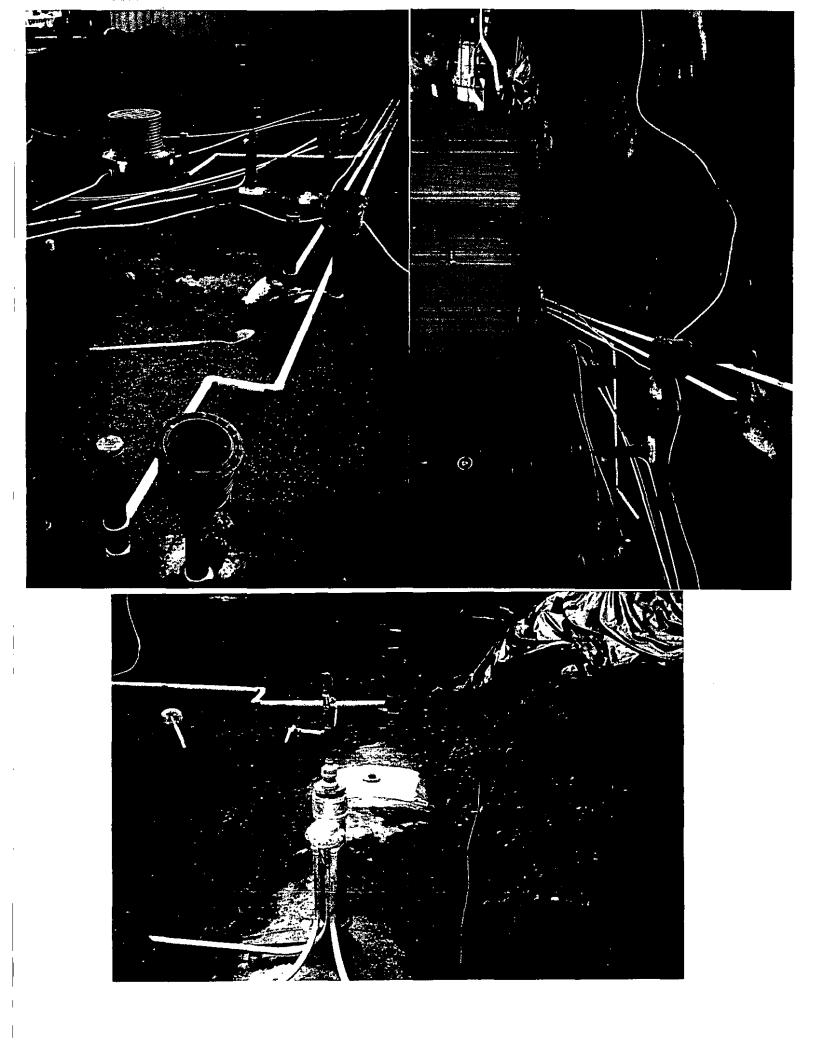
5.

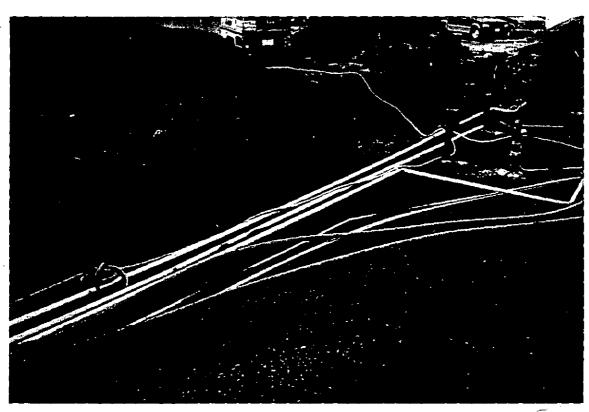
please check the n/a box.)

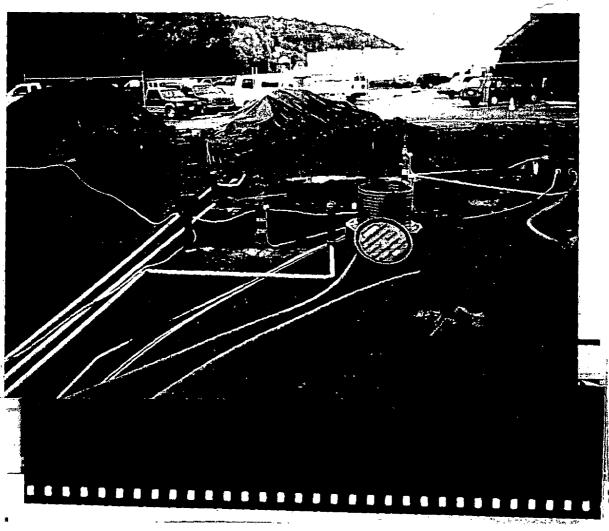


	INSTALLER'S OATH: I certify that I have been the Oregon DEQ licensed supervisor present on site during the above listed upgrade/retrofit/replacement activities and to the best of my knowledge they have been conducted in compliance with all state and federal laws, regulations and industry standards and procedures pertaining to underground storage tanks. I further certify that the information contained in this report and checklist is true to the best of my belief and knowledge.
	Installer:
	Position: Super VISer signature
}	Company: PNS, Date: 11/16/98
	UST Service Provider Firm, Executive Officers The trick Jumphy Signature Signature
Г	
	UST FACILITY OWNER/OPERATOR UPGRADE CERTIFICATION STATEMENT: I hereby certify that the information provided on this checklist concerning the upgrade status of my tank system(s) is accurate.
	Rafael A Caballero facaballero 12/18/98 print name signature date
 	OWNER'S FINANCIAL RESPONSIBILITY INFORMATION SECTION
	The tank owner has financial responsibility, if applicable, in accordance with OAR 340-150-004. Please specify:
	Method of financial responsibility:
	Insurer: Policy Number:
L	This form must be mailed to the appropriate DEQ Regional Office within 30 days after the upgrade/retrofit project is completed. For information, call the appropriate DEQ Regional Office or the toll free number, 1-800-742-7878.
	DEQ INSPECTIONS: This form may be used by DEQ Inspectors for oversight purposes. A DEQ inspector is not required to inspect the upgrade/retrofit. A DEQ inspector may not be on site or available during all of the inspections listed on this form. In the case of an oversight inspection, the DEQ inspector should check all boxes that are appropriate for the inspection(s) and forward a copy to the appropriate Regional Office for the facility file.
	DEQ Inspector's Signature Inspection Date(s)
L _	
. aş	ge 6 of 6 UST Upgrade/Retrofit CHECKLIST 9/97

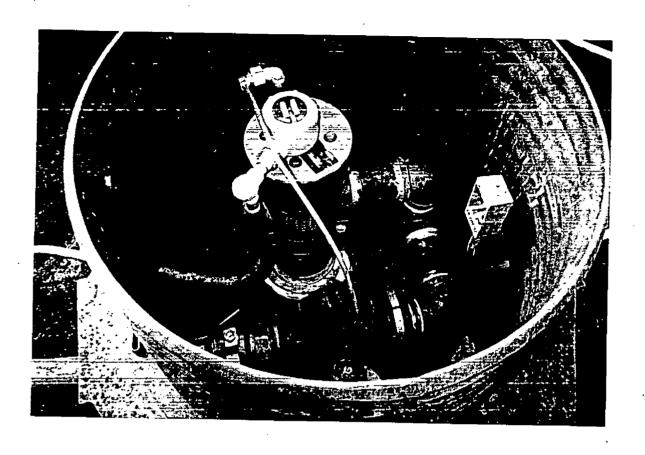
UPGCHKLST.DOC

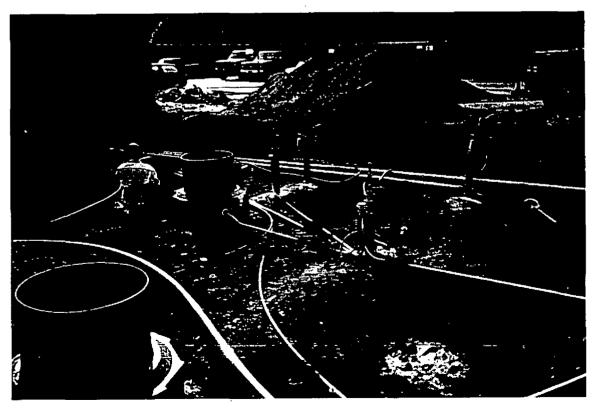


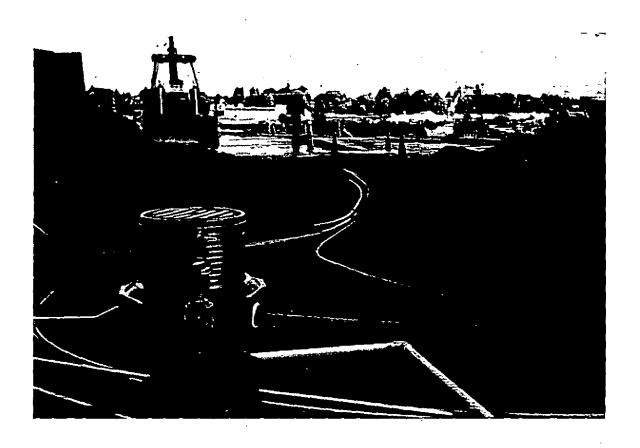




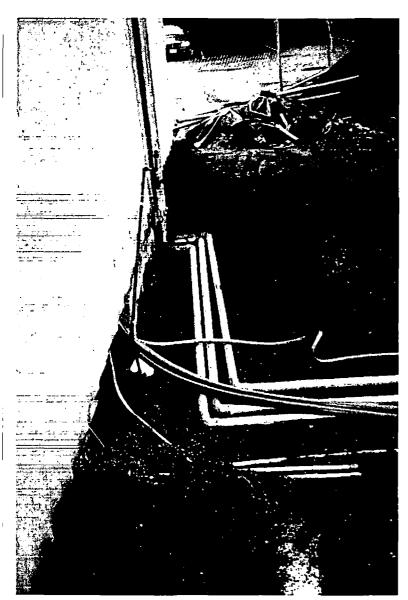
Confidential Business Information





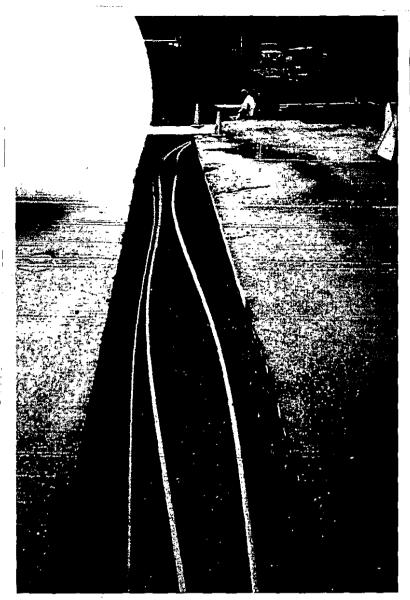


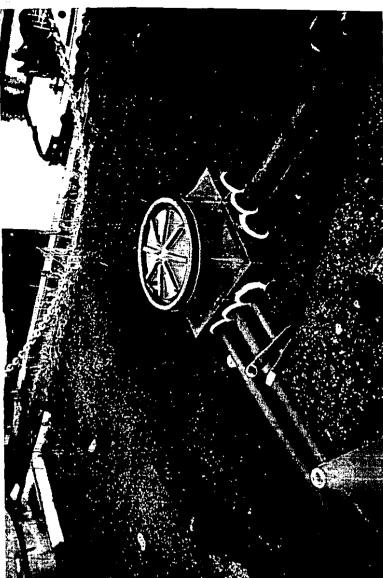


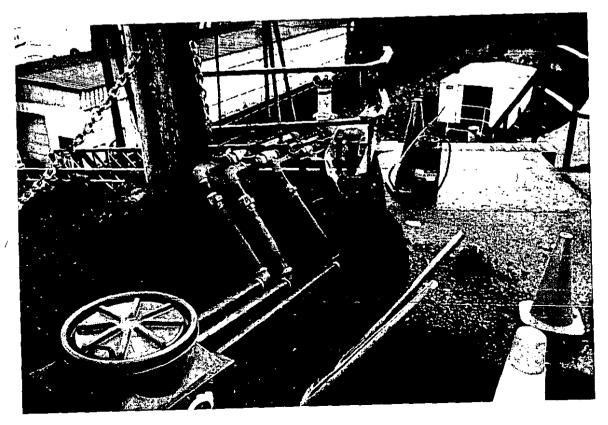


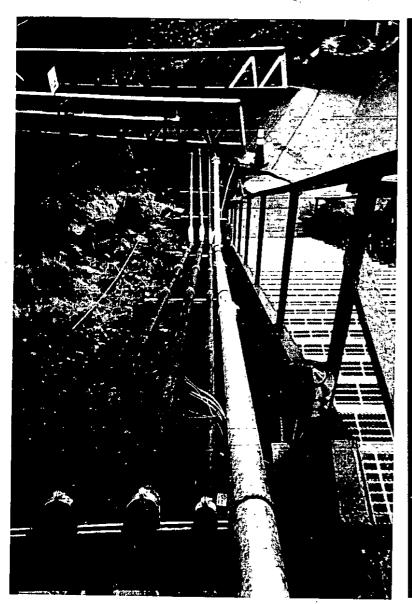








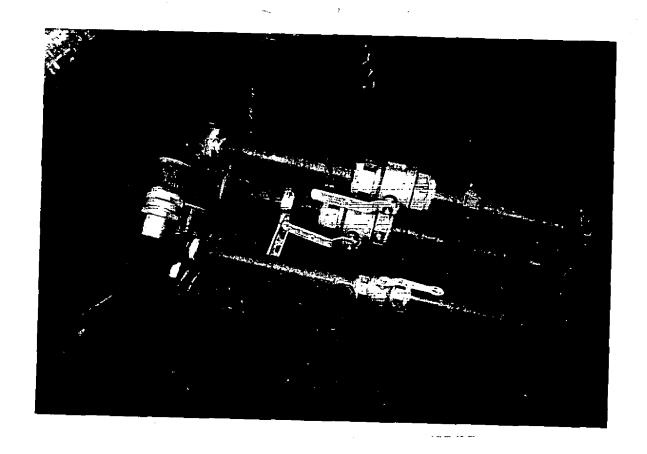


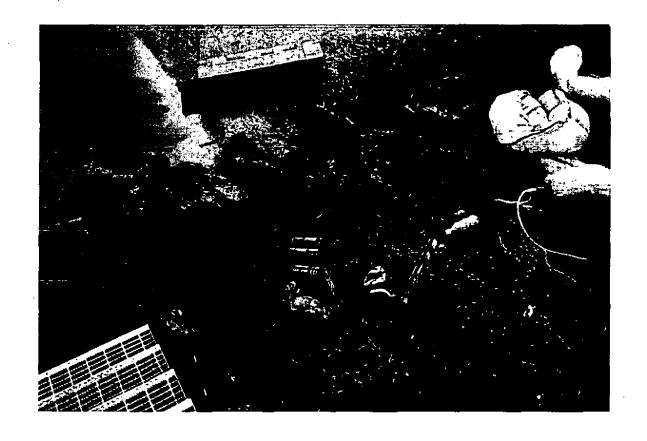






Confidential Business Information

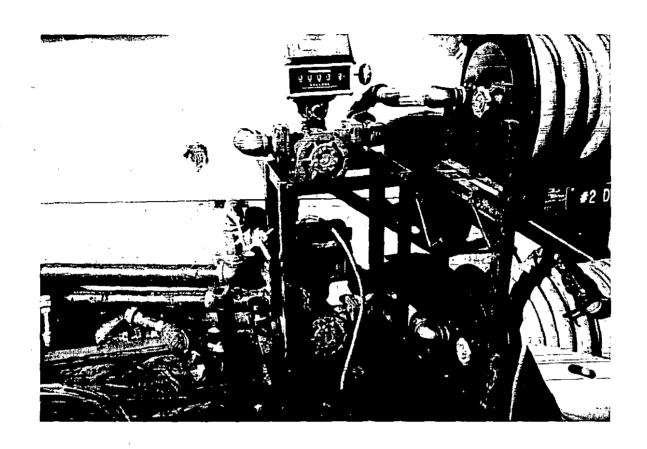


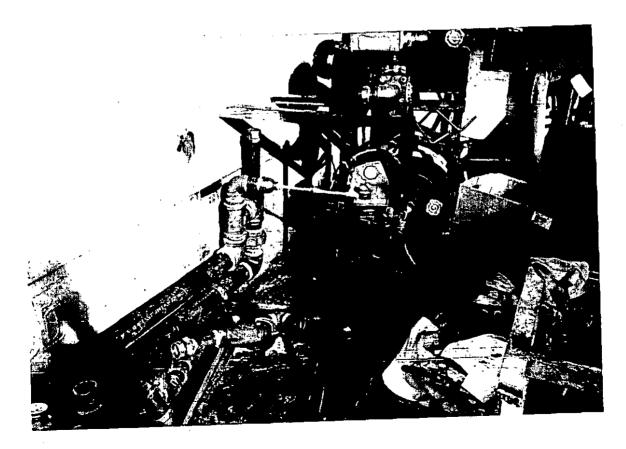






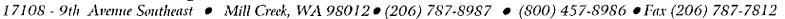
Confidential Business Information







Evergreen Environmental Services, Inc.



Certificate of Tightness

Underground storage tank system(s) were tested and found tight for:

Tank Owner: FOSS MARITIME

P.O. BOX 83018

PORTLAND, OR 97283-0018

Test Site Address:

FOSS MARITIME

9030 NW ST. HELENS RD

PORTLAND, OR

(5) Tank(s) Only

Test Date: JANUARY 23, 1997

(5) Line(s) only

() Detector(s) only

Tank Sizes & Products Tested:

1. TWO (2) 20,000 DIESEL

2. TWO (2) 6,000 LUBE OIL

3. 2,000 UNLEADED

4.

5.

6.

Lines Tested: TWO (2) LUBE OIL, DIESEL

Leak Detectors Tested: N/A

Identification Number: IFCI# 68812

Name of Certified Tester: FRANK NICHOLS

Signature

CERTIFICATION ANALYST



Evergreen Environmental Services, Inc.

LINE TEST DATA SHEET

Location:	Foss	Mar	itime :	Site ID#		
Address_				PL Test Date:		
	Portl	and,	OR. 9723	Operator:	Frank	Nichols
		J				

		PRODUCT				
	PLUE 40W	ا. 0 عطان کا UNL30 س	SUPER	DSL.		
Pump Manufacturer	Cent.	Cent.		Red Jacket		
Isolation mechanism (pump)	Plug	Plug		Plug		
Isolation mechanism (dispenser)						
Test pressure 1½ times working pressure	150	150		150		
Initial cylinder level	N/A	N/A		.0475		
Final cylinder level	1/	/		.0435		
Leak Rate - ICL -FCL X2				-,0080		
Time completed				15:20		
Time started	1)		14:50		
Total test time/30 minute minimum	1 hr.	1 hr		30 min		
Conclusion (pass or fail)	Pass	Pass		Pass		·
·						,

	Time started	1	/		14.50		
	Total test time/30 minute minimum	1 hr.	1 hr		30 min		
	Conclusion (pass or fail)	Pass	Pass		Pass		
	·						
TE	ECHNICIAN SIGNATURE:	h VI.	tus	DATE:	1/23/2	7	
Co	omments:						
	Note: Lule Oil Lines u	bere 4	ested	with	nituogen	press	ivre
	At 150 DSi and held for	1 hr.				•	
	No hime Leak Detector	s ins	alled	on D	issel tir	bines.	
	These are manifold togeth	er on	Comi	non L	ne.		
	,					ý.	
7/26	/93 WP51VprmsVinetest	\$ 44 5 00				man v a	

OICE #05000197

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS EVALUATION REPORT

**** CUSTOMER DATA ****

***** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: DIESEL FUEL 2

TYPE: STEEL

RATE: .035299 G.P.H. GAIN

TANK IS TIGHT.

TANK #2: DIESEL FUEL 2

TYPE: STEEL

RATE: .005110 G.P.H. GAIN

TANK IS TIGHT.

TANK #3: REG UNLEADED

TYPE: STEEL

RATE: .001650 G.P.H. GAIN

TANK IS TIGHT.

OPERATOR:

SIGNATURE:

00014078

JOB NUMBER : 000197

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

: 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 1 : P.O. BOX 83018 : PORTLAND, OREGON CITY, STATE

: 97283-0018 ZIP CODE (XXXXX-XXXX) PHONE NUMBER (XXX) XXX-XXXX : 503/286-0631

***** C O M M E N T L I N E S ******

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME

SITE CONTACT (LAST, FIRST) : CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 : PORTLAND, OREGON : 97231 CITY, STATE

ZIP CODE (XXXXX-XXXX)

PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 3

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

	TANK NO.	TANK NO. 2	TANK NO.	TANK NO.
TANK DIAMETER (IN) LENGTH (FT) VOLUME (GAL) TYPE	124 31.88 20000 ST	127 30.39 20000 ST	76 8.49 2000 ST	
FUEL LEVEL (IN)	87	91.7	53.4	
FUEL TYPE	DIESEL 2	DIESEL 2	REG UNLD	
dVOL/dy (GAL/IN)	187.92	179.65	30.63	
CALIBRATION ROD	DISTANCE			
1 2 3 4 5 6 7 8	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	

I JICE #05000198

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036

(206) 712-8986

TANK STATUS EVALUATION REPORT

***** CUSTOMER DATA *****

**** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: LUBE OIL 40 W

TYPE: STEEL

RATE: .035300 G.P.H. GAIN

TANK IS TIGHT.

TANK #2: LUBE OIL 30 W

TYPE: STEEL

RATE: .005110 G.P.H. GAIN

TANK IS TIGHT.

OPERATOR:

FRANK NICHOLS

JOB NUMBER : 000198

CUSTOMER (COMPANY NAME) : FOSS MARITIME
CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES ******

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME
SITE CONTACT(LAST, FIRST) : CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231

PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 2

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	1	2	3	4
TANK DIAMETER (II LENGTH (FT) VOLUME (GAL) TYPE	16.64	94 16.64 6000 ST		
FUEL LEVEL (IN)	36	49.8		
FUEL TYPE	LUBE OIL 40 W	LUBE OIL 30 W		
dVOL/dy (GAL/IN)	79.01	81.12		
CALIBRATION ROD	DISTANCE			
1	10.6563	10.6563		
1 2 3	26.9531	26.9531		
3	41.9375	41.9375		
4 5	56.9375	56.9375		
6	74.9375 .0000	74.9375 .0000		
7	.0000	.0000		
8	.0000	.0000		

VOICE #05000197

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS REPORT -- ULLAGE TEST

***** CUSTOMER DATA *****

**** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018 FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

***** COMMENT LINES *****

CURRENT EPA STANDARDS DICTATE
THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE
OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: DIESEL FUEL 2

TYPE: STEEL

SN:

.15

TANK IS TIGHT.

TANK #2: DIESEL FUEL 2

TYPE: STEEL

SN:

.21

TANK IS TIGHT.

TANK #3: REG UNLEADED

TYPE: STEEL

SN:

.55

TANK IS TIGHT.

OPERATOR:

FRANK NICHOLS

SIGNATURE:

DATE: 1/23/97

JOB NUMBER : 000197

CUSTOMER (COMPANY NAME) : FOSS MARITIME
CUSTOMER CONTACT (LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES ******

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME SITE CONTACT(LAST, FIRST) : CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231

PHONE NUMBER (XXX) XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 3

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

,	TANK NO.	TANK NO. 2	TANK NO.	TANK NO.
TANK DIAMETER (IN) LENGTH (FT) VOLUME (GAL) TYPE	124 31.88 20000 ST	127 30.39 20000 ST	76 8.49 2000 ST	
FUEL LEVEL (IN)	87	91.7	53.4	
FUEL TYPE	DIESEL 2	DIESEL 2	REG UNLD	
dVOL/dy (GAL/IN)	187.92	179.65	30.63	
CALIBRATION ROD	DISTANCE			
1 2 3 4 5 6 7 8	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	

VOICE #05000198

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS REPORT -- ULLAGE TEST ------

***** CUSTOMER DATA ****

**** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: LUBE OIL 40 W

TYPE: STEEL

SN: -1.48

TANK IS TIGHT.

TANK #2: LUBE OIL 30 W

TYPE: STEEL

SN: -1.17

TANK IS TIGHT.

FRANK NICHOLS

DATE: 1/23/97

00014087

JOB NUMBER : 000198

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT (LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES *****

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME SITE CONTACT (LAST, FIRST) : CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 2

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

•	TANK NO.	TANK NO.	TANK NC	
TANK DIAMETER (IN) LENGTH (FT)	94 16.64	94 16.64		
VOLUME (GAL) TYPE	6000 ST	6000 ST		
FUEL LEVEL (IN)	36	49.8		
FUEL TYPE LUBE	OIL 40 W	LUBE OIL 30 W		
dVOL/dy (GAL/IN)	79.01	81.12		
CALIBRATION ROD DI	STANCE			
1	10.6563	10.6563		
2	26.9531	26.9531		
3	41.9375	41.9375		
4	56.9375	56.9375		
5	74.9375	74.9375		
6	.0000	.0000		
7	.0000	.0000		
8	.0000	.0000		

1. OICE #05000197

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS EVALUATION REPORT

***** CUSTOMER DATA *****

***** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL PHONE #: 503/286-0631

**** COMMENT LINES *****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: DIESEL FUEL 2 TYPE: STEEL

RATE: .035299 G.P.H. GAIN

TANK IS TIGHT.

TANK #2: DIESEL FUEL 2 TYPE: STEEL

RATE: .005110 G.P.H. GAIN

TANK IS TIGHT.

TANK #3: REG UNLEADED TYPE: STEEL RATE: .001650 G.P.H. GAIN

TANK IS TIGHT.

OPERATOR: FRANK NICHOLS SIGNATURE:

00014090

: 000197 JOB NUMBER

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES ******

***** S I T E D A T A ******

SITE CONTACT (LAST, FIRST) : FOSS MARITIME

ADDRESS - LINE 1 : 9030 N TO TO

: 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231

PHONE NUMBER (XXX) XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 3

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

/	TANK NO.	TANK NO.	TANK NO.	TANK NO.
TANK DIAMETER (IN) LENGTH (FT) VOLUME (GAL) TYPE	124 31.88 20000 ST	127 30.39 20000 ST	76 8.49 2000 ST	
FUEL LEVEL (IN)	87	91.7	53.4	
FUEL TYPE	DIESEL 2	DIESEL 2	REG UNLD	
dVOL/dy (GAL/IN)	187.92	179.65	30.63	
CALIBRATION ROD	DISTANCE			
1	10.6563	10.6563	10.6563	
2	26.9531	26.9531	26.9531	
3	41.9375	41.9375	41.9375	
4	56.9375	56.9375	56.9375	
5	74.9375	74.9375	74.9375	
6	.0000	.0000	.0000	
7	.0000	.0000	.0000	
8	.0000	.0000	.0000	

/OICE #05000198

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS EVALUATION REPORT ______

***** CUSTOMER DATA *****

**** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: LUBE OIL 40 W

TYPE: STEEL

RATE: .035300 G.P.H. GAIN

TANK IS TIGHT.

TANK #2: LUBE OIL 30 W

TYPE: STEEL

RATE: .005110 G.P.H. GAIN

TANK IS TIGHT.

OPERATOR: FRANK NICHOLS SIGNATURE:

JOB NUMBER : 000198

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 : PORTLAND, OREGON CITY, STATE

ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES *****

***** S I T E D A T A ******

: FOSS MARITIME

SITE NAME (COMPANY NAME),
SITE CONTACT (LAST, FIRST) : CABALLERO, KAFADD
: 9030 N.W. ST. HELENS ROAD
: DOX 83018

CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 2

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

,	TANK NO. 1	TANK NO. 2	TANK NO.	TANK NO.
TANK DIAMETER (IN) LENGTH (FT) VOLUME (GAL) TYPE	94 16.64 6000 ST	94 16.64 6000 ST	J	*
FUEL LEVEL (IN)	36	49.8		
FUEL TYPE LU	JBE OIL 40 W	LUBE OIL 30 W		
dVOL/dy (GAL/IN)	79.01	81.12		
CALIBRATION ROD	DISTANCE			
1	10.6563	10.6563		
1 2 3	26.9531	26.9531		
3 4	41.9375 56.9375	41.9375 56.9375		
5	74.9375	74.9375		
4 5 6 7	.0000	.0000		
	.0000	.0000		
8	.0000	.0000		

NVOICE #05000197

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS REPORT -- ULLAGE TEST

**** CUSTOMER DATA ****

**** SITE DATA ****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: DIESEL FUEL 2

TYPE: STEEL

SN: .15

TANK IS TIGHT.

TANK #2: DIESEL FUEL 2 TYPE: STEEL

SN: .21

TANK IS TIGHT.

TANK #3: REG UNLEADED TYPE: STEEL

SN: .55

TANK IS TIGHT.

OPERATOR: FRANK NICHOLS

SIGNATURE:

***** C U S T O M E R D A T A ******

: 000197 JOB NUMBER

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018

CITY, STATE : PORTLAND, OREGON ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

***** COMMENT LINES ******

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME

SITE CONTACT (LAST, FIRST) : CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018

CITY, STATE : PORTLAND, OREGON

ZIP CODE (XXXXX-XXXX) : 97231

PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 3

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

****** TANK DATA ******

	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	1	2	3	4
TANK DIAMETER (IN)	124	127	76	
LENGTH (FT)	31.88	30.39	8.49	
VOLUME (GAL)	20000	20000	2000	
TYPE	ST	ST	ST	
FUEL LEVEL (IN)	87	91.7	53.4	
FUEL TYPE	DIESEL 2	DIESEL 2	REG UNLD	
dVOL/dy (GAL/IN)	187.92	179.65	30.63	
CALIBRATION ROD	DISTANCE			
1	10.6563	10.6563	10.6563	
1 2	26.9531	26.9531	26.9531	
3	41.9375	41.9375	41.9375	
4	56.9375	56.9375	56.9375	
5	74.9375	74.9375	74.9375	
6	.0000	.0000	.0000	
7	.0000	.0000	.0000	
8	.0000	.0000	.0000	

JVOICE #05000198

TEST DATE: 01/23/97

EVERGREEN ENVIRONMENTAL SERVICES, INC. 19121-60th AVE. WEST #2 LYNNWOOD, WASHINGTON, 98036 (206) 712-8986

TANK STATUS REPORT -- ULLAGE TEST

***** CUSTOMER DATA *****

***** SITE DATA *****

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97283-0018

FOSS MARITIME 9030 N.W. ST. HELENS ROAD P.O. BOX 83018 PORTLAND, OREGON 97231

CONTACT: CABALLERO, RAFAEL CONTACT: CABALLERO, RAFAEL

PHONE #: 503/286-0631

PHONE #: 503/286-0631

**** COMMENT LINES ****

CURRENT EPA STANDARDS DICTATE THAT FOR UNDERGROUND FUEL TANKS, THE MAXIMUM ALLOWABLE LEAK/GAIN RATE OVER THE PERIOD OF ONE HOUR IS .05 GALLONS.

TANK #1: LUBE OIL 40 W TYPE: STEEL

SN: -1.48

TANK IS TIGHT.

TANK #2: LUBE OIL 30 W

TYPE: STEEL

SN: -1.17

TANK IS TIGHT.

OPERATOR: FRANK NICHOLS SIGNATURE:

Milas DATE: 1/23/97

***** C U S T O M E R D A T A ******

: 000198 JOB NUMBER

CUSTOMER (COMPANY NAME) : FOSS MARITIME CUSTOMER CONTACT(LAST, FIRST): CABALLERO, RAFAEL

ADDRESS - LINE 1 : 9030 N.W. ST. HELENS ROAD ADDRESS - LINE 2 : P.O. BOX 83018

CITY, STATE : PORTLAND, OREGON ZIP CODE (XXXXX-XXXX) : 97283-0018 PHONE NUMBER (XXX) XXX-XXXX : 503/286-0631

***** COMMENT LINES *****

***** S I T E D A T A ******

SITE NAME (COMPANY NAME) : FOSS MARITIME SITE CONTACT(LAST, FIRST) : CABALLERO, RAFAEL ADDRESS - LINE 1 : 9030 N.W. ST. HELH

: 9030 N.W. ST. HELENS ROAD

ADDRESS - LINE 2 : P.O. BOX 83018 CITY, STATE : PORTLAND, OREGON ZIP CODE (XXXXX-XXXX) : 97231 PHONE NUMBER (XXX)XXX-XXXX : 503/286-0631

GROUND WATER LEVEL (FT) : 0

NUMBER OF TANKS : 2

LENGTH OF PRE-TEST (MIN) : 30 LENGTH OF TEST (MIN) : 300

****** TANK DATA ******

	TANK NO.	TANK NO.	TANK NO.	TANK NO.
TANK DIAMETER (I) LENGTH (FT) VOLUME (GAL) TYPE	16.64	94 16.64 6000 ST		
FUEL LEVEL (IN)	36	49.8		
FUEL TYPE	LUBE OIL 40 W	LUBE OIL 30 W		
dVOL/dy (GAL/IN)	79.01	81.12		
CALIBRATION ROD	DISTANCE			
1 2 3 4 5 6 7 8	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000	10.6563 26.9531 41.9375 56.9375 74.9375 .0000 .0000		

TANK & LINES UPGRADES AND REPAIRS

ALL INFORMATION PERTAINING TO THE UPGRADING OR REPAIR OF YOUR SYSTEM SHOULD BE IN THIS SECTION, INCLUDING BUT NOT LIMITED TO:

- ANY NEW DRAWINGS NEEDED
- PERMITS AND CHECK LISTS
- THIRD PARTY CERTIFICATIONS
- TESTING AFTER REPAIR OR UPGRADE
- EQUIPMENT LISTS
- DATE OF COMPLETION
- GARANTEES
- OPERATING INFORMATION
- COMPANY PERFORMING THE WORK
 - COPIES OF SERVICE PROVIDERS NUMBER AND SUPERVISOR NUMBER IF APPLICABLE
 - CONTRACTOR LICENSE NUMBER IF APPLICABLE

PUT ANYTHING INTO THIS SECTION WHICH PERTAINS TO ANY SYSTEM CHANGES WHICH ARE NOW IN EFFECT

Certificate of Insurance Storage Tank Systems

Policy No.	Effective Date	Expiration Date
SEA 06-01	January 1, 2006	January 1, 2007

Named Insured and Mailing Address:

Foss Maritime Company 660 West Ewing Street Seattle, WA 98119 Name of Insurer:

Navigators Insurance Company
Millennium Syndicate

95% 5%

CERTIFICATE

The "insurer" as identified able, hereby certified that is has issued liability insurance covering, he following underground storage tanks:

Tank #	Cap. Gal.	Contents	Position
1	20,000	Diesel Oil, #2	Underground
2	20,000	Diesel Oil, #2	Underground
4	6,000	Lubricating Oil, 30 weight	Underground
Total	46,000	.	

For taking corrective action and compensating third parties for bodily injury and property damage caused by accidental releases; in accordance and subject to the limits of liability, exclusions, conditions and other terms of the policy; arising from operating the underground storage tank(s) identified above.

The limits of liability are \$1,000,000 each occurrence and \$2,000,000 annual aggregate, inclusive of legal defense Costs.

- 2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1.
 - Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which
 this certificate applies.
 - b. The Insurer is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 50 CFR 280.95-280.102.
 - c. Whenever requested by a Director of an implementing agency, the Insurer agreed to furnish the Director a signed duplicate original of the Policy and all endorsements.
 - d. Cancellation or any other termination of the insurance by the Insurer, except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice an only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-payment of premium or misrepresentation by the Insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.
 - e. The insurance covers claims of otherwise covered by the Policy that are reported to the Insurer within six(6) months of the effective date of cancellation or non-renewal of the Policy except where the now or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reported period are subject to the terms, conditions, limits, including limits of liability, and exclusion of the policy:

Thereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97 (b) (3) and that the insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess lines insurer, in one or more states.

Navigators Insurance Company

Through Navigators Insurance Services of Washington

Authorized Representative

ORIGINAL

On behalf of Navigator's Insurance Co. through Navigators Insurance Services of Wa., Inc.

01/09/2006 MON 14:40 [TX/RX NO 5655] @002

98%

P.03

MARSH

Marsh USA Inc. 1215 Fourth Avenue, Suite 2300 Seattle, WA 98161 carole.harris@marsh.com www.marsh.com

Fax

To:

Mr. Mitch Scheel

From:

Carole M. Harris

Date:

January 09, 2006

Fax:

206 613 2512

Organization:

Oregon DEQ

Phone:

206 613 2662

Fax:

503 229 6954

Pages:

_

Phone:

Subject:

Foss Maritime Company - Certificate(s) of Insurance

At the request of our insured, Foss Maritime Company, we have issued the following · Certificate(s) of Insurance for your records.

We trust you will find all in order but should you have any questions upon review, please do not hesitate to contact me.

Sincerely

Carole M Hatrin

Copy: Frank Williamson - Foss Maritime Company

document?

The documents accompanying this transmission contain confidential information, and may contain confidential health information, that is legally privileged. This information is intended only for the use of the individual or entity named above. The authorized recipient of this information is prohibited from disclosing this information to any other party unless required to do so by law or regulation and is required to destroy the information after its stated need has been fulfilled.

If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or action taken in reliance on the contents of these documents is strictly prohibited, if you have received this information in error, please notify the center immediately and arrange for the return or destruction of these documents.

MMC

MAK Marsh & McLennan Companies

JAN-09-2006 15:03

2066132512

97%

P.01

Stu Sanborn

From: SCHEEL Mitch [SCHEEL.Mitch@deq.state.or.us]

Sent: Wednesday, January 11, 2006 2:12 PM

To: Stu Sanborn: Frank Williamson

Cc: SCHEEL Mitch

Subject: RE: DEQ Certificate of Insurance

Stu/Frank. I received appropriate FR verification from Carol Harris w/Marsh – DEQ ID #7374 is in compliance.

Thanks - Mitch

----Original Message----From: SCHEEL Mitch

Sent: Monday, November 21, 2005 4:37 PM

To: 'Frank Williamson'

Cc: Stu Sanborn; SCHEEL Mitch

Subject: RE: DEQ Certificate of Insurance

Please review the documentation enclosed in the mailing you received. The only certificate I can use for verification per EPA is documented best in the fact sheet provided in the mailing. I cannot verify anything else

Thanks - Mitch

----Original Message-----

From: Frank Williamson [mailto:frankw@foss.com]

Sent: Monday, November 21, 2005 4:21 PM

To: SCHEEL Mitch Cc: Stu Sanborn

Subject: RE: DEQ Certificate of Insurance

Mr. Scheel:

I must respectfully disagree with your statement that the certificate provided by Foss "does not indicate USTs are covered". In fact, in the Section entitled "Description of Operations/Locations/Vehicles/Special Items" of the certificate, the following language specifically referencing the USTs at the facility is included: "Coverage includes Sudden & Accidental Pollution Liability only at the following facility: 9030 NW St. Helens Rd., Portland, OR 97231. This facility includes three Underground Storage Tanks".

We arranged specially with our underwriters to have this language added to the certificate. Mr. Reiter of DEQ agreed last year that with this added language the certificate did meet the requirements of the applicable regulations. The certificate provided fully complies with the EPA requirements.

Please let me know if you have any further questions.

Frank Williamson

From: Stu Sanborn

Sent: Monday, November 21, 2005 4:10 PM

To: Frank Williamson

Subject: FW: DEQ Certificate of Insurance

----Original Message----

From: SCHEEL Mitch [mailto:SCHEEL.Mitch@deq.state.or.us]

Sent: Monday, November 21, 2005 4:01 PM

To: Stu Sanborn Cc: SCHEEL Mitch

Subject: RE: DEQ Certificate of Insurance

Mr. Sanborn – Thank you for e-mailing me the certificate of insurance. Unfortunately, the document does not verify financial responsibility (FR) for your underground storage tanks (USTs). Although the document states that it is a "certificate of insurance", it isn't in the form of the required certificate of insurance for FR of USTs and only shows general liability and does not indicate USTs are covered.

What I need for verification is identified in the mailing you received. Please review the documentation and let me know if I can be of further assistance.

I appreciate your response and look forward to verifying the FR for Foss's USTs soon.

Mitch Scheel UST Policy Coordinator Oregon DEQ 503,229,6704

----Original Message-----

From: Stu Sanborn [mailto:stu@garth.foss.com]
Sent: Monday, November 21, 2005 3:48 PM

To: SCHEEL Mitch

Subject: FW: DEQ Certificate of Insurance

Mr. Scheel,

Please let me know wither way if the attached document meet the requirements.

Thanks so Much, Stu Sanborn Foss Maritime Company Columbia and Snake Rivers 503 978-6745

----Original Message----From: Frank Williamson

Sent: Monday, November 21, 2005 2:13 PM

To: Stu Sanborn (Stu Sanborn) **Subject:** DEQ Certificate of Insurance

Stu:

Attached is the certificate we supplied to DEQ which is in effect until the end of this year. I suggest you contact him directly and offer to hand-deliver the certificate as we discussed. I agree that establishing some relationship would help avoid having this happen every year.

Thanks – let me know how it goes.

Frank

Frank Williamson General Counsel Foss Maritime Company 660 West Ewing Street Seattle, Washington 98119 206-281-3891 206-281-5541(fax)

P. 02

MARSH

Carole M. Harris Assistant Vice President

Marsh USA Inc. 1215 Fourth Avenue, Suite 2300 Seattle, WA 98161 206 613 2662 Fax 206 613 2512 carole.harris@marsh.com www.marsh.com

October 30, 2003

Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204

Subject:

Certificate of Insurance - Foss Maritime Company

Dear Sir or Madam:

At the request of our client, Foss Maritime Company, we have issued the enclosed Original Certificate(s) of Insurance for your review.

We trust you will find this in order but if you should have any questions or comments, please direct them through Frank Williamson at Foss Maritime Company.

Best Regards,

Carole M. Harris

Assistant Vice President

Сору:

Frank Williamson

Dean Hunter

Master Cert to holder Ltr.doc

MARC Marsh & McLennan Compani

TIME

Fax:206-281-4702

. <u>.</u>	CERTIF	ICATE OF				ed Date				
1 .	Marsh USA Inc. 1215 Fourth Avenue, Su	ite 2300	CONFER PROVIDE	S NO RIGHTS UPON D IN THE POLICY. R THE COVERAGE	ED AS A MATTER OF INFORM THE CERTIFICATE HOLDER THIS CERTIFICATE DOES NO AFFORDED BY THE POLICIE	OTHER OT AMEN S LISTER	THAN THOSE ND, EXTEND, D HEREIN.			
	Seattle, Washington 981		<u> </u>	COMPANY A Navigators Insurance Company COMPANY B COMPANY C COMPANY C						
Ins	игед									
	s Mantime Company West Ewing Street									
	ttle, WA 98119-1587		COMPANY	D						
	VETGGES S TO CERTIFY THAT POLICIES OF INSURANCE LITE	O HEREIN HAVE BEEN ISSUED.	YO THE INSURED NAME	O HEREIN FOR THE POL	ICY PERIOD INDICATED, NOTWITHST	TANDING A	ANY RE-			
CURRE	MENT, TERM OR CONDITION OF ANY CONTRACT OF	R OTHER DOCUMENT WITH RE	SPECT TO WHICH THE	ERTIFICATE MAY BE IS:	LED OR MAY PERTAIN. THE INSUR	ANCE AFF				
Co			Policy	Policy	<u> </u>					
Ltr.	Type of Insurance	Policy Number	Effective Date	Expiration Date	Limit	5	·			
Α	General Liability	SE03LIA 82498182	11/01/03	11/01704	General Aggregate	\$	2,000,000			
					Products-Comp/Op Agg	\$	1,000,000			
	☐☐Claims Made ☐Occur.				Pérsonal & Adv Injury	\$	1,000,000			
	☐Owner's Contract Prot.				Евсh Оссителсе	\$	1,000,000			
	│	,			Fire Damage (Any one fire)	\$	50,000			
					Med, Expense (Any one person)	\$	5,000			
	Automobile Liability				Combined Single Limit	\$				
	☐Any Auto				Sodily Injury (Per person)	\$				
	☐All Owned Autos				Bodfly Injury (Per accident)	\$	•			
	☐Scheduled Autos				Property Damage	Š				
	☐Hired Autos]			}	*.				
	☐Non-Owned Autos]		_	;					
	Garage Liability				Auto Only-Each Accident	\$				
	☐Any Auto	ì			Other Than Auto Only	\$				
	□GKLL				Each Accident	\$				
		}			Aggregate	\$				
	Excess Liability				Each Occurrence	\$				
	Umbrella Form		, .		Aggrégate	S				
	Other Than Umbrella Form		'			•				
	Workers' Compensation				Statutory Limits	\$				
	and Employers Liability	1			Each Accident	\$				
	Including USL&H	(Disease—Policy Limit	s	•			
		{			Disease—Each Employee	\$				
	Other		·	····	Liability Limit	\$	<u></u>			
				·	. "	-				
	cription of Operations/Locationage includes Sudden & Accidenta		cial Items	· —						
Cer	tificate Holder	SHOUL			INCELLED BEFORE THE EXPIRATION					
	artment of Environmental Quality SW Sixth Avenue	House	er named Herein, bu Fon the insured act	FAILURE TO MAIL SUC) MAIL <u>30 DAYS</u> WRITTEN NOTICE TO 4 NOTICE SHALL IMPOSE, MO OBLIGA 5 AGENTS OR REPRESENTATIVES, O	TION OR I	CHARLES OF ANY			
	and, OR 97204		SH USA INC	99/1	11.0					
				VI / YUL						



STATE OF OREGON



Department of Environmental Quality 811 SW 6th Avenue, Floor 8

Portland OR 97204-1390

Phone: (503) 229-5913 Fax: (503) 229-6954

DATE 10-5-04
ro: Strart Saborn
FAX: 503-289-7385
FROM: KICH REITER (503-229 - 5733)
NUMBER OF PAGES INCLUDING COVER: Street, attached place find
2 examples of Centiticates That
Satisfus te specific wording
requirements st 40 (FR 280.97(6)1
PLEASE CALL IF YOU HAVE ANY OUESTIONS
Mould notice the similarity of wording
You'll notice the similarity of wording except for insured, insurer and
facility location intonnation.
Thatis for your amistance on this,
natter. Due

ZPR 7-12-04

Certificate Of Insurance Storage Tank Systems

Policy No.	Policy No. Elf. Date of Pol.		Eff Date of Bud.	Producer	Add Press.	Roturn Prom.
	09/01/03	09/01/04	09/01/03	11-971-000	60,498.00	
Named Instruct o	nd Madine Addre	ee Professy	_	Sab	-Producer:	

ELLIOTT, POWELL, BADEN & BAKER

1521 S.W. SALMON STREET

97205

CERTIFICATE:

1. Zurich American Insurance Company, the Insurer, as identified above, hereby certifies that it has issued liability insurance covering the following underground storage tank(s):

> Per Attached Scheduled Locations and Scheduled Storage Tank(s) Systems

for taking corrective action and compensating third parties for bodily injury and property damage caused by accidental releases; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy, arising from operating the underground storage tank(s) identified above.

The limits of liability are \$_1,000,000 each occurrence and \$ 5,000,000 amousl aggregate, exclusive of legal defense costs which are subject to a separate limit under the policy, This coverage is provided under policy # The effective date of said policy is 09/01/03

- The Insurer further certifies the following with respect to the insurance described in Paragreph 1;
 - a. Bankuppay or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which this certificate applies.
 - b. The Insucer is liable for the payment of amounts within any deductible applicable to the policy to the provider of concenive action or a damaged third party, with a night of reindbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another ructharism or combination of mechanisms as specified in 40 CFR 230.95-280.102.
 - Whenever requested by a Director of an implementing agency, the Instruct agrees to furnish to the Director a signed duplicate original of the Policy and all endorsements.
 - d. Cancellation of any other examination of the insurance by the Insuran except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insued. Cancellation for non-payment of premium or missepresentation by the Insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.
 - c. The insurance covers claims otherwise covered by the Policy that are reported to the Insurer within six (6) mouths of the effective date of cancellation or non-renewal of the Policy except where the new or renewed policy has the same remeative date or a reprocedve date earlier than that of the prior policy and which arise out of any covered occurrence that commenced

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U-ENVI-151-A CW (1/99)

All rights reserved. No pan of this document covered by the copyrights kerean may be reproduced or copied in any form by any more: - graphic, electronic, or mechanical, including photoe-pying, toping or information storage and confered systems - without written permission of the Zurich Accorden freemes Company. after the policy removative date, if applicable, and prior to such policy renewal or tecrnination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.

I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97 (b) (2) and that the insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states.

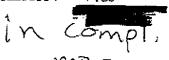
Roger B. Brumer
Assistant Vice President
Authorized Regresentative of
Zimich American Insurance Company
One Liberty Plaza, 53th Phoor
New York, New York 10006

U-ENVI-151-A CW (189) Page 2 of 2

				-							
TANK	TP	install,	RETRO	PIMITS	DED	CONTENTS		CAPACITY	CONSTRUC	CTION	
QD	UST	01/01/74	18/21/02	1,000,000/5,000,000	50,000	UNLEADED	GASOL1	10,000	STEEL- C	ATE E	'RO
01	UST	01/01/74	10/21/02	1,000,000/5,000,000	50,000	UNLEADED	gasoli	10,000	SIEEL- C	AIR P	מתי
02	UST	01/01/72	10/21/02	1,000,000/5,000,000	50,000	UNIEADED	GASOLI	10,000	STEEL- C	H EIA	RO
				1,000,000/5,000,000		(MLEADED	Grecli	3,000	STERL- C	ATE P	RO



P.05



CERTIFICATE OF INSURANCE

NHEZ

NAME:

See Schedule of Facilities Endorsement (E038)

ADDRESS:

See Schedule of Facilities Endorsement (E038)

POLICY NUMBER:

PERIOD OF COVERAGE:

<u>11/13/2003</u> TO <u>11/13/2004</u>

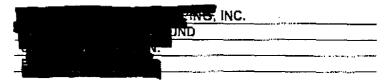
NAME OF INSURER.

COLONY INSURANCE COMPANY 9201 Forest Hill Avenue, Suite 200 Richmond; Virginia 23235

Tel. (800) 577-6614

NAME OF INSURED:

ADDRESS OF INSURED:



CERTIFICATION:

1. COLONY INSURANCE COMPANY, the Insurer, as identified above, hereby certifies that it has issued liability insurance covering the following underground storage tank(s):

See Schedule of Facilities Endorsement (E038)

For "corrective action costs" and for "bodily injury" and "property damage" caused by either sudden accidental releases or non-sudden accidental releases or accidental releases, in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy arising from ownership, maintenance or use of the underground storage tank(s) identified above.

The Limits of Insurance are \$1,000,000.00 each occurrence and \$1.000,000.00 aggregate policy limit, exclusive of legal defense costs. This coverage is provided under the effective date of the policy is 11/13/2003.

- 2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
 - A. Bankruptcy or insolvency of the insured shall not relieve the insurer of its obligations under the policy to which this certificate applies.
 - B. The insurer is liable for the payment of amounts within any deductible applicable to the policy to the party performing the corrective action and damages arising out of "bodily injury" or "property damage" for which the insured is legally liable, with a right of reimbursement from the insured for any such payment made by the insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280,95-280,102.

E047 CERT PP (08/01)

1 of 2

- C. Whenever requested by a director of an implementing agency, the insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.
- D. Cancellation or any other termination of the insurance by the insurer, except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-payment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of 10 days after a copy of such written notice is received by the insured.
- E. The insurance covers claims otherwise covered by the policy that are reported to the insurer within six months of the effective date of cancellation or non-renewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commerced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of insurance, and exclusions of the policy.

I hereby certify that the wording of this instrument complies with the wording in 40 CFR 280.97(b)(2) and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states.

Jennifer Miller

Authorized Representative of COLONY INSURANCE COMPANY

9201 Forest Hill Avenue, Suite 200

teinfer d. Miller

Richmond, Virginia 23235

2 of 2

State of Oregon DEPARTMENT OF ENVIRONMENTAL QUALITY

FAX Transmittal Memorandum

No. of Pages: It Cover

Date: 5/17/04

To: Stuart Sanborn

DEQ ID # 7374

Phone:

Phone:

Phone:

From: Mitch School Dept. of Environmental Quality 811 s. W. 6th Avenue Portland, OR 97204

Phone:

From: Mitch School Dept. of Environmental Quality 811 s. W. 6th Avenue Portland, OR 97204

FAX: 503-229-6704

FAX: (503) 229-6954

Message: Here's the "model" we discussed, Let me Know if you have any questions,

Thanks, Mitch



Name: [name of each covered location]

Address: [address of each covered location]

Policy Number: -

Period of Coverage [current policy period]:

Name of [Insurer or Risk Retention Group]:

Address of [Insurer or Risk Retention Group]:

Name of Insured:

Address of Insured:

 [Name of Insurer or Risk Retention Group], [the "Insurer" or "Group"], as identified above, hereby certifies that it has issued liability insurance covering the following underground storage tank(s):

[List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 40 CFR 280.22, or the corresponding state requirement, and the name and address of the facility.]

for [insert: "taking corrective action" and/or "compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases"; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tank(s) identified above.

The limits of liability are [insert the dollar amount of the "per occurrence" and "annual aggregate" limits of the Insurer's or Group's liability; if the amount of coverage is different for different types of coverage or for different underground storage tanks or locations, indicate the amount of coverage for each type of coverage and/or for each underground storage tank or location), exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under [policy number]. The effective date of said policy is [date].

- 2. The ["Insurer" or "Group"] further certifies the following with respect to the insurance described in Paragraph 1:
- a. Bankruptoy or insolvency of the insured shall not relieve the ["Insurer" or "Group"] of its obligations under the policy to which this certificate applies.
- b. The ["Insurer" or "Group"] is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party,

with a right of reimbursement by the insured for any such payment made by the ["Insurer" or "Group"]. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280.95-280.102.

- c. Whenever requested by [a Director of an Implementing Agency], the ["Insurer" or "Group"] agrees to furnish to [the Director] a signed duplicate original of the policy and all endorsements.
- d. Cancellation or any other termination of the insurance by the ["Insurer" or "Group"]; except for non-payment of premium or misrepresentation of insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-renewal of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.

linsert for claims-made policies:

e. The insurance covers claims otherwise covered by the policy that are reported to the ["Insurer" or "Group"] within six months of the effective date of cancellation or non-renewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arises out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting periods are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.]

I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97(b)(1) and that the ["Insurer" or "Group"] is ["licensed to transact the business of insurance or eligible to provide insurance as an excess or surplus lines insurer in one or more states".]

[Signature of authorized representative of Insurer or Risk Retention Group]

[Printed name of person signing]

(Title of person signing), Authorized Representative of [name of Insurer or Risk Retention Group]

[Address of Representative]

Dollars And Sense

11

TOTAL P.02



The Oregon Administrative Rules contain OARs filed through April 15, 2004

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION 151

FINANCIAL RESPONSIBILITY FOR USTS

340-151-0001

Purpose

The purpose of these rules is to protect public health, safety, welfare and the environment from the potential harmful effects of spills and releases of petroleum from USTs by requiring UST owners and permittees to maintain sufficient financial resources in the event that corrective action or compensation for bodily injury or property damage is required.

Stat. Auth.: ORS 466.746 & ORS 466.815

Stats. Implemented: ORS 466.815

Hist.: DEQ 6-2003, f. & cert. ef. 2-14-03

340-151-0010

Scope and Applicability

- (1) Except as provided in section (2), an owner and permittee of a petroleum UST system that meets the requirements of OAR 340-150-0006 and that is not exempted or deferred by 340-150-0008, must comply with this division.
- (2) State and federal government entities the debts and liabilities if which are the debts and liabilities of a state or the United States are exempt from the requirements of this division.
- (3) If the owner and permittee of a petroleum UST are separate persons, only one of them is required to demonstrate financial responsibility. Both are, however, jointly liable in the event of noncompliance. Regardless of which person complies, the date set for compliance at a particular UST facility is determined by the characteristics of the owner as set forth in 40 CFR § 280.91.

(4) Each chamber or compartment of a multichamber or multicompartment UST is an individual tank for the purpose of OAR chapter 340, divisions 150 and 151.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 466.746 & ORS 466.815

Stats. Implemented: ORS 466.815

Hist.: DEO 6-2003, f. & cert. ef. 2-14-03

340-151-0015

Adoption and Applicability of United States Environmental Protection Agency Regulations

Except as otherwise modified or specified in this division, the rules of the United States Environmental Protection Agency governing the financial responsibility requirements for owners and operators of underground storage tanks in **Title 40 CFR**, **Part 280**, **Subpart H** in effect as of February 1, 2003 are adopted by the commission, incorporated by reference into this division, and applicable to all persons subject to this division. In addition to the Oregon-specific requirements in this division (OAR 340-151-0025), persons subject to this division must consult **40 CFR §§ 280.90** through 280.115 to determine applicable financial responsibility requirements.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 466.746 & ORS 466.815

Stats. Implemented: ORS 466.815

Hist.: DEQ 6-2003, f. & cert. ef. 2-14-03

340-151-0020

Definitions

The definitions and terms used in OAR 340-150-0010 and 40 CFR § 280.92 apply to this division.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 466.746 & ORS 466.815

Stats. Implemented: ORS 466.815

Hist.: DEQ 6-2003, f. & cert. ef. 2-14-03

340-151-0025

Oregon-Specific Financial Responsibility Requirements

The following rules in bold type substitute new language in lieu of or insert new language in addition to that in 40 CFR §§ 280.90 through 280.115:

- (1) The term "owner and permittee" is substituted in lieu of the term "owner or operator" as that term is used throughout 40 CFR Part 280, Subpart H.
- (2) The following terms are in addition to the definitions in 40 CFR § 280.92: "Owner" means a person

who currently owns an UST or owned an UST during the tank's operational life, including:

- (a) In the case of an UST system in use on November 8, 1984, or brought into use after that date, any person who owns an UST system used for storage, use or dispensing of regulated substances; and
- (b) In the case of an UST system in use before November 8, 1984, but no longer in use on that date, any person who owned such UST immediately before the discontinuation of its use. "Permittee" means the owner or person designated by the owner, who is in control of or has responsibility for daily UST system operation and maintenance, financial responsibility and UST operator training requirements under a general permit pursuant to OAR 340-150-0160 through 340-150-0168.
- (3) The following requirement is in addition to 40 CFR § 280.97 (a) through (c):
- (a) Each insurance policy or cover page must include the UST facility identification number issued by the department for each UST facility at which petroleum USTs are located.
- (4) The following language is substituted in lieu of 40 CFR § 280.108 (b):
- (a) After obtaining alternate financial assurance as specified in this subpart, an owner or operator may cancel a financial assurance mechanism by providing notice to the provider of financial assurance. Within 30 days after a substitution is made, the owner and permittee must:
- (A) Provide notice of cancellation of the previous financial assurance mechanism to the department and the former provider of financial assurance; and
- (B) Provide a copy of the new financial responsibility mechanism to the department that demonstrates full compliance with the requirements of this division.
- (5) The following requirement is in addition to the notice requirement in the first sentence of 40 CFR § 280.109 (a):
- (a) Except as otherwise provided, a provider of financial assurance may cancel or fail to renew an assurance mechanism by sending a notice of termination by certified mail to the owner or operator., with a copy provided to the department by first class mail delivery.
- (6) The following language is substituted in lieu of 40 CFR § 280.110(a)(1):
- (a) Within 30 days after the owner or operator identifies a release from an underground storage tank required to be reported under §280.53 or §280.61OAR 340-122-0205 through 340-122-0360.
- (7) The following requirements are in addition to 40 CFR § 280.110(a)(1) through (a)(3):
- (a) With an application to modify an UST general permit registration certificate as required by OAR 340-150-0052 for a change in owner or permittee; and
- (b) Within 30 days after a new financial responsibility mechanism is obtained that replaces or substitutes for a previous mechanism as required by 40 CFR § 280.108.
- (8) The following requirement is in addition to 40 CFR § 280.110(a) through (c):

- (a) An owner and permittee or provider of financial assurance on their behalf, must notify the department by 15 days after the end of the previous month in which any of the following changes to a liability insurance policy (as amended by endorsement or certificate of insurance) occur as a result of actions by the owner, permittee or insurer:
- (A) Cancellation;
- (B) Failure to renew; or
- (C) Issuance of a new or modified insurance policy.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 466.746 & ORS 466.815

Stats. Implemented: ORS 466.815

Hist.: DEQ 6-2003, f. & cert. ef. 2-14-03

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Alphabetical Index by Agency Name

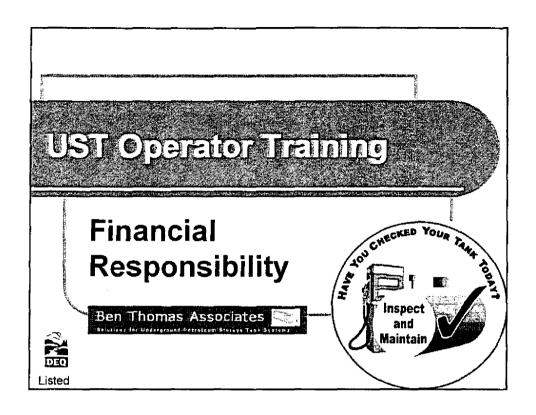
Numerical Index by OAR Chapter Number

Search the Text of the OARs

Questions about Administrative Rules?

Link to the Oregon Revised Statutes (ORS)

Return to Oregon State Archives Home Page



Financial Responsibility

- Mechanism options
 - Private insurance, self insurance, others.
- Amounts
 - \$1M/occurance, \$1M annual aggregate.
- Coverage types
 - Cleanup, off-site damages (not legal costs).
- Coverage inexpensive these days.
- Liability: Owner AND permitee if different.
- Exempt: State/Federal owners.



Financial Responsibility



- Documents to have ready for inspection: Insurance policy
 - Self-insurance letter from CFO, or
 - Other documents.
- Provide proof to DEQ within 30 days if you
 - Discover a release,
 - Change ownership, or
 - Switch methods.



Financial Responsibility

- If any changes to insurance policy:
 - Notify DEQ within 15 days after date of effective change.
 - Permitee or insurer may notify.
 - Changes include policy modification, cancellation or non-renewal.
- You must maintain proof until:
 - Tank is closed and any contamination cleaned up to DEQ satisfaction.



Financial Responsibility

Make sure your policy covers UST pollution.
 Should say "Underground Storage Tank" it in title.

Important language: "I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97(b)(2) and that the ["Insurer" or "Group"] is ["licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states"].



- Good Resources:
 - EPA's List of Known Insurance Providers for UST systems
 - EPA's Dollars & Sense
 - Your insurance broker
 - Oregon Gasoline Dealers Association (www.ogda.org)



Department of Environmental Quality

811 SW Sixth Avenue Portland, OR 97204-1390 503-229-5696 TTY 503-229-6993

November 15, 2005

Stuart Sanborn Foss Maritime Company 9030 NW Saint Helens Road Portland, OR 97231-1127

RE: Warning Letter with Opportunity to Correct – Failure to have Financial Responsibility

FOSS MARITIME Facility ID # 7374 WL-HQ-LQ/T-2005-0013

By Certified Mail

Dear Stuart Sanborn:

Background

Underground storage tank (UST) owners and/or permittees must demonstrate that they have the financial resources (through insurance or other means) to pay the costs of cleaning up leaks and compensating third-parties for bodily injury and property damage caused by leaking USTs. In September 2002, the Department of Environmental Quality (Department) began verifying compliance with the requirements for Financial Responsibility (FR) for all regulated UST facilities in Oregon. Since that time, the Department has requested verification of FR for the above referenced facility on several occasions through both written requests and actual or attempted telephone contact. To date, the Department has not received the required verification of FR. As the registered owner and/or permittee for the UST facility referenced above, you are responsible for the following violation of Oregon environmental law:

VIOLATION:

Oregon Administrative Rule (OAR) 340-150-0135(3), CLASS I, Failure to establish or maintain a Financial Responsibility mechanism.

Corrective Action Requested

Provide the Department with appropriate verification of Financial Responsibility by **December 15**, **2005**. The enclosed "Documenting Compliance with Financial Responsibility" fact sheet and the "Dollars and Sense – Financial Responsibility Requirements for Underground Storage Tanks" publication, page 11, explains the most common form of documentation that must be provided to the Department.

Mail documentation to:

Department of Environmental Quality (DEQ) Mitch Scheel 811 SW 6th Ave. Portland, Oregon 97204

If you correct the violation cited above by providing the requested verification within the time frame outlined above, the Department will not take formal enforcement action on the violation. However, should this violation remain uncorrected, it will be referred to the Department's Office of Compliance and Enforcement for formal enforcement action, including assessment of a civil penalty, a Department order or the revocation of the permit to operate your UST system. Civil penalties can be assessed for each day of violation.

If you feel the Department has issued this Warning Letter in error, you may provide information to my attention at the address shown above to clarify the facts surrounding the alleged violation. If the Department determines that the violation was cited in error, the Department will amend or withdraw this Warning Letter. The Department endeavors to assist you in your compliance efforts. Should you have any questions about the content of this letter or desire any follow-up technical assistance, please contact me at 503-229-6704 or 1-800-452-4011 (in Oregon).

Sincerely,

Mitch Scheel

UST Policy Coordinator

Underground Storage Tank Program

2 School

Cc:

Frank Williamson 660 W Ewing St.

Seattle, WA 98119

NWR Tanks Program

Office of Compliance and Enforcement, DEQ Headquarters

FINANCIAL RESPONSIBILITY

THIS SECTION SHOULD CONTAIN A COPY OF YOUR POLLUTION INSURANCE, OR DOCUMENTATION OF ONE OF THE OTHER METHODS OF MAINTAINING FINANCIAL RESPONSIBILITY FOR YOUR UST SYSTEM

!!!MAKE SURE THAT THE WORDING FOR YOUR METHOD IS WRITTEN IN EXACT EPA LANGUAGE!!!



Self insured people must have proof of selfinsurance text see above pull Info From web site Fill out Forms

INSURANCE

PER OCCURRENCE:

The amount of money that must be available to pay the costs for each occurrence of a leaking tank.

Facilities that handle an average of more than 10,000 gallons per month (based on annual throughput for previous calendar year)--\$1 MILLION.

Those handling less than 10,000 gallons \$500,000

ANNUAL AGGREGATE:

The total amount available to cover all obligations that might occur in one year.

Depends on the number of tanks that is owned or operated: ito 100 tanks \$1 million—101 or more tanks \$2 million Each chamber of a compartmentalized tank is considered a tank.

These required amounts do not include legal defense costs.

NOTE: demonstrating financial responsibility for the required amounts of coverage does not limit an owner or operator's liability for corrective action and third party compensation.

Section 280.97 Insurance and risk retention group coverage.

- (a) An owner or operator may satisfy the requirements of § 290.93 by obtaining liability insurance that conforms to the requirements of this section from a qualified insurer or risk retention group. Such insurance may be in the form of a separate insurance policy or an endorsement to an existing insurance policy.
- (b) Each insurance policy must be amended by an endorsement worded as specified in paragraph (b)(l) of this section, or evidenced by a certificate of insurance worded as specified in paragraph (b)(2) of this section, except that instructions in brackets must be replaced with the relevant information and the brackets deleted:
 - (1) Endorsement

Name: [name of each covered location]

Address: [address of each covered location]

Policy Number:

Period of Coverage: [current policy period] Name of [Insurer or Risk Retention Group]:

Address of [Insurer or Risk Retention Group]:

Name of Insured:

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Address of Insured:

ENDORSEMENT:

1. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering the following underground storage tanks:

[List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 40 CFR 280.22, or the corresponding state requirement, and the name and address of the facility.]

for [insert: "taking corrective action" and/or "compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tank(s) identified above.

The limits of liability are [insert the dollar amount of the "each occurrence" and "annual aggregate" limits of the Insurer's or Group's liability; if the amount of coverage is different for different types of coverage or for different underground storage tanks or locations, indicate the amount of coverage for each type of coverage and/or for each underground storage tank or location], exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under [policy number]. The effective date of said policy is [date].

- 2. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions inconsistent with subsections (a) through (e) of this Paragraph 2 are hereby amended to conform with subsections (a) through (e);
- a. Bankruptcy or insolvency of the insured shall not relieve the ["Insurer" or "Group"] of its obligations under the policy to which this endorsement is attached.
- b. The ["Insurer" or "Group"] is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party, with a right of reimbursement by the insured for any such payment made by the ["Insurer" or "Group"]. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280.95280.102.
- c. Whenever requested by [a Director of an implementing agency], the ["Insurer" or "Group"] agrees to furnish to [the Director] a signed duplicate original of the policy and all endorsements.
- d. Cancellation or any other termination of the insurance by the ["Insurer" or "Group"], except for nonpayment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for nonpayment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.

Insert for claims made policies:

e. The insurance covers claims otherwise covered by the policy that are reported to the ["Insurer" or "Group"] within six months of the effective date of cancellation or nonrenewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of

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the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.]

I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97(b)(l) and that the ["Insurer" or "Group"] is ["licensed to transact the business of insurance or eligible to provide insurance as an excess or surplus lines insurer in one or more states"].

[Signature of authorized representative of Insurer or Risk Retention Group]
[Name of person signing]
[Title of person signing], Authorized Representative of [name of Insurer or Risk Retention Group]
[Address of Representative]

(2) Certificate of Insurance

Name: [name of each covered location]
Address: [address of each covered location]

Policy Number:

Endorsement (if applicable):

Period of Coverage: [current policy period] Name of [Insurer or Risk Retention Group]: Address of [Insurer or Risk Retention Group]:

Name of Insured: Address of Insured:

Certification:

1. [Name of Insurer or Risk Retention Group], [the "Insurer" or "Group"], as identified above, hereby certifies that it has issued liability insurance covering the following underground storage tank(s): [List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 40 CFR 280.22, or the corresponding state requirement, and the name and address of the facility.]

for [insert: "taking corrective action" and/or "compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tank(s) identified above.

The limits of liability are [insert the dollar amount of the "each occurrence" and "annual aggregate" limits of the Insurer's or Group's liability; if the amount of coverage is different for different types of coverage or for different underground storage tanks or locations, indicate the amount of coverage for each type of coverage and/or for each underground storage tank or location], exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under [policy number]. The effective date of said policy is [date].

2. The ["Insurer" or "Group"] further certifies the following with respect to the insurance described in Paragraph 1:

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Oregon Department of Environmental Quality - OAR Chapter 340, Division 151

- a. Bankruptcy or insolvency of the insured shall not relieve the ["Insurer" or "Group"] of its obligations under the policy to which this certificate applies.
- b. The ["Insurer" or "Group"] is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party, with a right of reimbursement by the insured for any such payment made by the ["Insurer" or "Group"]. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280.95280.102.
- c. Whenever requested by [a Director of an implementing agency], the ["Insurer" or "Group"] agrees to furnish to [the Director] a signed duplicate original of the policy and all endorsements.
- d. Cancellation or any other termination of the insurance by the ["Insurer" or "Group"], except for nonpayment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for nonpayment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.

[Insert for claims made policies:

e. The insurance covers claims otherwise covered by the policy that are reported to the ["Insurer" or "Group"] within six months of the effective date of cancellation or nonrenewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.]

I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97(b)(2) and that the ["Insurer" or "Group"] is ["licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states"]. [Signature of authorized representative of Insurer] [Type name]

[Title], Authorized Representative of [name of Insurer or Risk

Retention Group] [Address of Representative]

- (c) Each insurance policy must be issued by an insurer or a risk retention group that, at a minimum, is licensed to transact the business of insurance or eligible to provide insurance as an excess or surplus lines insurer in one or more states.
- (d) Each insurance policy or cover page must include the UST facility identification number issued by the department for each UST facility at which petroleum USTs are located.

[53 FR 43370, Oct. 26, 1988, as amended at 54 FR 47081, Nov. 9, 1989]

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- 1. Record Volt and Amps at least every 60 days.
 - a. Note changes in readings & look for trends.
 - b. Be especially on the lookout for drops in current.
- 2. Check the perimeter of tanks in the parking lot.
 - a. Look for any exposed wiring or damage to the system.

Date	Volts	Amps	Wiring
5/1/07	50	7,3	OK
	50	3.3 3.1	OT.
7/2/07	50	3.0	OC
818107	50	3.0	OC_
9/12/107	50	3.1	OK
10/11/07	50	3.0	OK
11/5/07	50	3.0	OK
12/4/07	50	3.0	Dr.
1/2/26	50 50	3.1	
1/2/08 1/4/08	50	3.0	1 01
3/3/08	50	3.()	0/2
1-01-71-08 1			
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-			<u> </u>

- 1. Record Volt and Amps at least every 60 days
 - a. Note changes in readings & look for trends.
 - b. Be especially on the lookout for drops in current.
- 2. Check the perimeter of tanks in the parking lot.
 - a. Look for any exposed wiring or damage to the system.

Date	Volts	Amps	Wiring
9/2/4	50	3.0	OK
11/15/4	5 0	3.0	
1/5/5	50	3,0	⊙K
2/15/5	50 50 50 50	3.⊙	oK
3/31/5	50	3.0	o K
5/21/5	50 50 50 53.2 50 50 50 50	3.6	0 K 0 K 0 K
7/29/5	50	3.6 3.6	oK_
9/15/5	53.2	3.6	OK OK
11/14/5	50	3.0	OK
12/13/5	50	3.0 3.0	0K 0K 0K 0K 0K
1/6/6	50	3 :0	oK
21.716	50	3.0	OK
3/10/6	50	3.0	OK
4/7/6	50	3,0	OK
5/25/6	50	3.0	OK,
6/26/6	50	3.3	o K
7/25/06	50	3.3	OIC
8/18/06	50 50	3.3 3.0	01
10/11/06	50	3.0	01/2
11/3/06	50	3.0	OK
12/1/06	50	3.3	OV
1/5/07	50	3.0	OK
2/2/07	50	スク	OV_
3/2/07	50	3.0	0V 67
4/6/07	50	3.0	87

- 1. Record Volt and Amps at least every 60 days.
 - a. Note changes in readings & look for trends.
 - b. Be especially on the lookout for drops in current.
- 2. Check the perimeter of tanks in the parking lot.
 - a. Look for any exposed wiring or damage to the system.

Date	Volts	Amps	Wiring
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- 1. Record Volt and Amps at least every 60 days.
 - a. Note changes in readings & look for trends.
 - b. Be especially on the lookout for drops in current.
- 2. Check the perimeter of tanks in the parking lot.
 - a. Look for any exposed wiring or damage to the system.

Date	Volts	Amps	Wiring_
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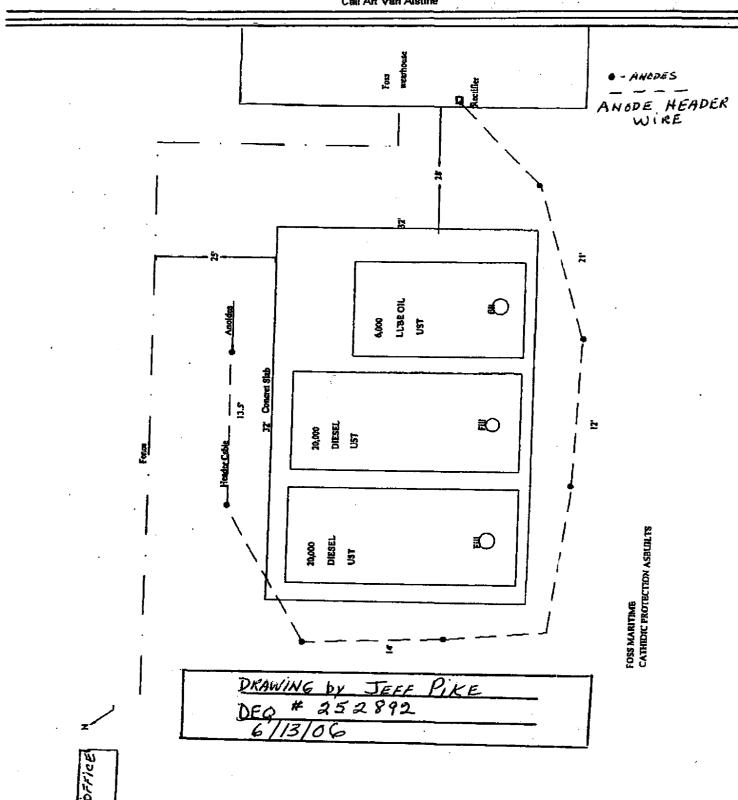
orresion . Frotection Dervices, LLC

20435 S. Laland Rd. Oregon City Or, 97045 (503) 655-9488 FAX (503) 655-6150

OR CCB: 153233 | WA REG: Corrops965RZ

Emerging Small Business #3440 | QAME Member | NFIB and BBB Member

Call Art Van Alstine



REC'D JUN 2 0 2006

		Oregon	Department of	Environme	ntal Qualit	V
			odic Protection			•
		UST Ow	ner		UST Facility	つろつい
NAME:	F058 m	Jarit	me	NAME: FOSS	maritin	ne 10#: 2509
ADDRES	ss: P. O.	Box 8	33018		V.W. 5+ He	
CITY:	PORTL	6/2	STATE: OP.	CITY: PORTL		STATE: OR
	· · · · · · · · · · · · · · · · · · ·			tection Tester		
		EFFER	Y G PIKE	CP TESTER'S LICENSE	96	
	NY NAME: P	<u>xe's '</u>	copelimited.	EXPIRATION DATE:	<u>5- 18-</u>	2007
ADDRES	:: <u>3258</u>	<u>Ca.S.ca</u>		PHONE NUMBER:	<u>503-873</u>	- 8070
CITY:	Silve		STATE: 02	NACE CERTIFICATION)
	protection system			ent Data Last Teste	* New Inc	Stall
Weather	Conditions at Tin					· <u> </u>
Tempera	iture: 69	Soil/Backfill Cor	nditions (circle): moist dry sa	nd gravel soll Describ	= In 60 - 150	5611 407
Cath	odic Prot	ection S	ystem Certificatio	n	1 12 12 12 12 12 12 12 12 12 12 12 12 12	
Identif	y which of the	e following	testing situations is being	g recorded:		
	est required					
The ca 2002, a	athodic protections and is provid	within 6 mo ction systen ing cathodic	onths of any repair activing is effective, testing was protection to all tanks a	ty s performed according and product lines: [ing to NACE Star	lo ,
The ca 2002, a	thodic protec	within 6 mo ction systen ing cathodic	onths of any repair activi n is effective, testing was	ty s performed according and product lines: [ing to NACE Star	lo ,
The ca 2002, a Signati	athodic protect and is provid ura of Tester	within 6 months of the state of	onths of any repair activion is effective, testing was protection to all tanks a	ty s performed according and product lines: [ing to NACE Star	lo ,
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UST SITE PLAN – On the back draw a diagram showing the important parts of the facility (tanks, lines, manway locations, turbines, vents, rectifier, pump islands, buildings). Indicate reference cell locations where structure-to-soil potential or continuity measurements have been made and label(R-1, R-2, R-3); location of all anodes and wires; location of CP test stations.

March 2006

Page 3 of 5

DEQ-06-LQ-019

Facility Name TOSS maritime Test Date 7-24-06 Facility #85893

	GALVANIC		.) CP TEST RESULTS		RT PAGE
		STRUCTURE TO S	SOIL POTENTIAL MEASUREME	NTS	
10	STRUCTURE	CONTACT POINT	reference cell id	mΥ	COMMENTS
L3"	90° ELBO/	y'Steel PiRe	CoPlexionersular	975	New MStall
m3"	90°ELBO/	4'Steel Pole		<u>~.975</u>	+01 -1
221	30° ECBO. /	4'steel PiRe	11	-1975	Uniprost ad
1,12					PIPE
				<u> </u>	
				<u> </u>	
		<u> </u>			**************************************
	· ,	CP TEST	STATION REQUIREMENTS		stent with previous CP system
Heve p	revious CP system tost re	çorda been reviewed?	tests?	Offined Const	Sterit with previous CP system
If test p	rocedures have changed	since last test please explain	First test		
					
lia					
			ing including any buried flex-connectors		
			TIONS TO THE CP SYSTEM AR		UR ARE NECESSARY
- COOCHE	- Till labella or world	sations to the camonic but	tection system that are made or are in	cessary.	
	Jalvani's	c anivid	was added	} +	O leve
	Not Pr	a tected	By in Ovesser	50	Stern.
		30117 may		وسلاً	
	Command	14 FR.	Moceled an		
	2/14/13	· · · · · · · · · · · · · · · · · · ·			

March 2006

Page 5 of 5

DEQ-06-LQ-019



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY Underground Storage Tank Program

UNDERGROUND STORAGE TANK SYSTEM MODIFICATION AND ADDITION REPORT AND CHECKLIST

Modification or addition work conducted at one UST facility may be reported together by completing pages 3, 4, 5, 6, and 7 once for the entire facility. Make additional copies of page 4, as needed.

DEQ Facility ID Number:	<u> 7374</u>
DEQ UST Facility Name:	Foss maritime
Facility (location) Address:	PODTLOND, OR 97283
UST permittee name:	Foss maritime
Permittee mailing address:	P. Box 83018 P. 271600, OP 97283
Permittee Telephone:	
2. TANK MODIFICATION	OR ADDITIO: PERFORMED BY:
2. TANK MODIFICATION	OR ADDITION PERFORMED BY: ONLy and a DEQ License Number 25893
2. TANK MODIFICATION (Service Provider: Recognition (Plead Address: 3258 Casa	unit mode and DEQ License Number 25893 use Print) Conce House DE Lic. Expiration Date: 4/27/07
2. TANK MODIFICATION (Service Provider: Recognition (Plead Address: 3258 Casa	UNIV m 2 DEQ License Number 25893 use Print) a. de H. J. P. Lic. Expiration Date: 4/27/07
2. TANK MODIFICATION (Service Provider: PKES (Pleat Address: 3258 Casa Salverton Telephone: 503-87. Licensed Supervisor: 24	DEQ License Number 25893 use Print) act How DE Lic. Expiration Date: 4/27/07 L. OR 238/ 3.807

January 2006

Fa. of 7

DEQ-05-LQ-023B

IMPORTANT NOTE REGARDING USE OF THIS PAGE (Page 4 of 7)

If the same work is completed on each tank and associated piping system, fill out this page just once. If different work is completed on each tank and associated piping system, make copies of this page and fill one out for each tank and associated piping system that has been modified, added to, or that has had metal underground piping and fittings repaired or replaced.

3.	TANK AND	ASSOCIATED PIPING SYSTEM INFOR	MATION
J.	I ALIAN ALIA	ABSOCIATED III IN O BILLEMINON	

TANK #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRODUCT STORED		TYPE OF ASSOCIATED PIPING (i. c. metal, fiberglass, flexible, single-walled, double-walled, otc.		
			CURRENT	FULURE	CURRENT	FUTURE	
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4. MODIFICATION, ADDITION, And METAL PIPING REPAIR OR REPLACEMENT INFORMATION (Please write a narrative do cription of the work that was completed).

Install Galvanic	Protection on
	approxment bouth
	Poured over the
	were they Transition
From sea Fle	
Section was	
intral install	
Prampted the	
	Jeff The
	7 //
January 2006	DEQ-05-LQ-023B

5. CHECKLIST: (Check YES or NO. 'Vhere a pecific item is "not applicable" to the situation, please check the N/A box)

	YES	NO	N/A
Was the DEQ Regional Office notified at least 30 dees in advance of the planned modification or addition start date?	×		
Was the DEQ Regional Office notified 72 hours in advance prior to beginning the modification or addition? If yes, indicate 3-day number issued:	×		
Was external cathodic protection (CP) installed, raedified or added to?	X		
Was a separate CP report submitted or attached?	×	-	
Was a CP test station installed?		X	
Is a 6-month CP follow-up inspection/test sched fed? Projected inspection date: 1/24/0 =	×		
Was a site assessment conducted?			×
Was contamination, including simple overfill, encountered and was it reported to DEQ? If so, indicate DEQ LUST number issued:			×
Were internal inspections of all USTs completed sectors It ling began on any UST?			×
Have the results of the internal tank inspections from submitted to and/or discussed with DEQ?		•	×
If there were holes in any of the USTs, has a SUSPETED release been reported to DEQ? If yes, indicate date apported:			×
Was the system tight-tested before placing back it is service?	:	_	X
Do all tank and piping materials comply with O. R 340-15 \ 3300?			×
Have all items checked above been modified or added to in accordance with all codes, manufacturer's requirements and federal and star regular and the codes.	×		
Has the UST system permitted been provided with write a documentation of the item(s) modified or added to and has the permittee been inducted in preserve these records?	×		

January 2006

12e 5

DEQ-05-LQ-023B

6. AS-BUILT DRAWING OF TANK SYSTEM SODIFICATION OR ADDITION

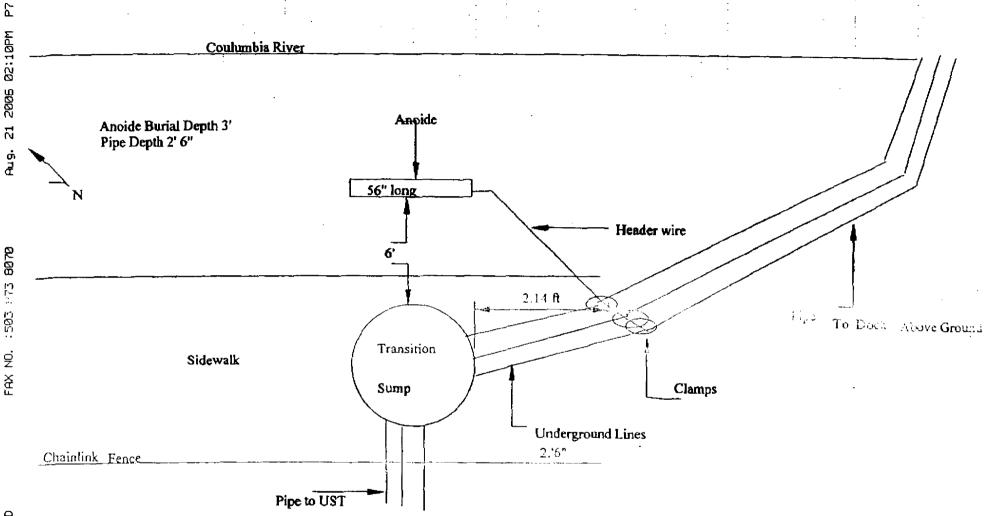
SEI a tached.

Attach documentation, including equipment receiper, for any equipment that was modified or added, including the repair or replacement of metal piping and fittings.

January 2006

Page 6: 7

DEQ-05-LQ-023B



Pike's Unlimited 3258 Cascade Hwy NE Silverton, OR 97381 503-873-8070

Parking

TECH Jeff Pike

Area

DATE June 28th 2006

Location: Foss Maritime 9030 NW ST Helens RD Portland, OR

during the above listed modification conducted in compliance with procedures pertaining to under this report and checklist is to	fication or addition hall local, state and orground storage ta	work and to a d federal laws, ink systems. 1	he best of my regulations as further certify	knowledge i nd industry :	standards and
Supervisor: TETT (Print	Nime)		-7;	(Signature)	The
Service Provider: Service Provider Firm			Date:	7-24-	-06
JETT PKA (Print Name)		2 45	Me ignasure)		7-24-06 (Date)
I hereby certify that the informaddition work on my tank and the second of the second	ation provided on tussociated piping	n dris report i s Lystem is a ret	d checklist co	ncerning the	
/a raise a develor		,•	8		(200)
For information, call 18.					
800-742-7878. Two copaddition work is complete	ed to:	uust be io lie	d within 30	days after	
809-742-7878. Two copied addition work is complete. 1. One copy to the a	es of this form m ed to: ppropriate DEQ I	nast be to the Regi onal (15)	d within 30	days after	
800-742-7878. Two copaddition work is complete	es of this form in ed to: ppropriate DEQ I if at this copy has a Transpoun Co- fronmental Qua	Regional (15)	d within 30	days after	
2. One copy to the a Department of the UST Program 811 SW 614 Avecage Addition work is complete.	es of this form in ed to: ppropriate DEQ I if it this copy has in Fragram Co- brougantal Qua	Regional (15)	d within 30	days after	
2. One copy to the a Department of the UST Program 811 SW 6" Ave. Portland, OR 97.	ed to: ppropriate DEQ I distribute copy has registed Cool fronmental Qua-	Regional (15)	d within 30 in the control of the co	days after	the modification or

January 2006

age 7 of

DEQ-05-LQ-023B



$\underbrace{C_{\text{orrosion}}\ P_{\text{rotection}}\ S_{\text{ervices, LLC}}}$

20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 655-9488 Fax: (503) 655-6150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

D	Date: 9/11/2004	Emerging Smar	Contact	: Linda Brown		Cell:
	unt: Foss Maritime Co.			9030 N. W. St H		Phone: 503-978-6546
•	DOE DEQ - # 7374	<u>.</u>		Portland, OR 972		Fax: 503-735-4976
		C	orrosion Test l	Monitoring Fiel	d Report	
Equip	ment Data: Rectifier: B	Benchmark Model	BPS 72 volt 6 au	nperes 2-20,000 ga	al. Diesel, 1-6,000	lube oil
	t: 50.0 volts 3.8 amper	es				
Tap Se	ettings: C - 3					<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
		-				
	er Treatment:	Comb	ustion:	Burner	Service:	CP-Testing: X
Analy	Sis City		Well // M-alk	Soft P-alk	TH Fe	
Wt-Pr				Z. J. J. Z.		
Inv/O				- 		
	Systèm	⊈ి 5 aTeલt - ₹s	Range	Last Test	Today's Test	Comments
1	20,000 gal. Diesel	Steel /Soil	85 volts	925	930	Protected
2	20,000 gal. Diesel	PF	**	905	910	Protected
3	6,000 gal. Lube Oil	PÈ	ŧŧ	- 1.003	- 1. 006	Protected
					•	
4	Product Lines			<u> </u>		Environ
	·					
				 	REC'D SEP	1 6 2004
			<u> </u>		KEUU	
						
					- <u> </u>	
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	The state of the s	A TO STATE OF THE				
z., pr	THE PERSON STATES AND STATES	en in the second		mmendations :		
UST's a	are cathodically protect	ed and are in DEQ	compliance for co	orrosion control.		
Y-IL .		1(12)	41 4 1 1 1 1 1	. 1'		
	pair of the saw cut that hed to the new cable to the		ices that had cable	protruding was con	npletely replaced a	nd the anodes were
Johnoc	a to the new caute to t	at rooting.		· · · · · · · · · · · · · · · · · · ·		
	nas been sent your fax c		k left to do on the	saw cut trench and	unsmooth concrete	patch hazards.
Roger	Fernandez N.A.C.E. ce	rtification # 3440				
Cus	tomer Name: Linda B	rown			CPS Tech Name:	Roger Fernandez DEQ # 15070
Custom	er Signature:			СР	S Tech Signature:	

Corrosion Protection Services, LLC.

P.O. Box 1374 Oregon City, OR 97045 CCB#153233- Reg#CORROPS985RZ

Phone: 503-655-9488 Fax: 503-655-6150



Invoice

Date	Invoice #
6/10/2006	1545

Bill To				Ship To				
Foss Maritime Company 9030 N.W. St. Helens R Portland, OR 97231	oad			•				
		P.O. No	Terms	s Sa	alesperson	Ship Date	e Sh	ip Vîa
	·	Linda Brown	Net 10 da	ays	AGV	9/15/2005	,	CPS
Qty		Description			Unit I	Price	Tota	al
	recommendations	ion Testing with written		!	N 12	2006		395.00
A finance charge of 1 1/2	% will be added to	balances over 30 days pa	ast due.	:	Total			\$395.00



INNOVATIVE CONCEPTS

20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 655-9488 Fax: (503) 655-6150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

Date: 9/15/2005 Account: Foss Maritime Co.

Contact: Linda Brown Address: 9030 N. W. St Helens Rd.

Phone: 503-978-6546

Cell:

	DOE DE	EQ - # 7374		City/ST/Zip	Portland, OR 972	31	Fax: 503-735-4976
			(Corrosion Test l	Monitoring Fiel	d Report	
utpu		olts 3.8 amper		IBPS 72 volt 6 au	mperes 2-20,000 gz	al Diesel, 1-6,000	tube oil
Wet	er Treat	ment:	Com	bustion:	Rumer	Service:	CP-Testing:
уу ац Алађ		City		Well M-alk	Soft P-alk	TH Fe	Mhos Ph
Nt-Pi nv/C							
No.		System O gal. Diesel	Test Steel /Soil	Range 85 volts	Last Test	Today's Test	Comments Protected
2		00 gal Diesel	*	н н	-,910	895	Protected
3	6,000	gal. Lube Oil	10	-	-1.006	984	Protected
4	Pro	oduct Lines				Environ Piping	Piping is in DEQ compliance
						RECID J	UN 1 2 2006
ST's a	re catho	odically protecte	d and are in DEQ	: Recor	nmendations : rrosion control.		
	ed to the	new cable to t	he rectifier.	aces that had cable		pletely replaced an	d the anodes were

CPS Tech Name: Roger Fernandez DEQ # 15070

Customer Signature: Linda Brown

CPS Tech Signature: Roger Fernandez



$C_{\text{orrosion}}\,P_{\text{rotection}}\,S_{\text{ervices, LLC}}$

20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 655-9488 Fax: (503) 655-8150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Correps985RZ

	,			· · · · · · · · · · · · · · · · · · ·	·					
_		Emerging Sma		OAME Member 1	NFIB and BBB Me		_			
	Date: 6/22/2004			Contact: Linda Brown Address: 9030 N. W. St Helens Rd.			Cell:			
	ount: Foss Maritime Co. DOE DEQ - # 7374			: 9030 N. W. St H : Portland, OR 972		Phone: 503-978-6546 Fax: 503-735-4976				
						ra	x: 303-733-4970			
46.5		C	orrosion Test	Monitoring Fiel	d Report		Page 1			
Equip	oment Data: Rectifier: I	Benchmark Model	BPS 72 volt 6 a	mperes 2-20,000 ga	al. Diesel, 1-6,000	lube oil				
Outpu	t: 50.0 volts 3.8 amper									
Tap S	ettings: C-3					···				
<u></u>										
Wat	er Treatment:	Comb	oustion:	Burner	Service:		CP-Testing: X			
A 1	City		Well	Soft	TH		Mhos			
Analy	ysis Si,		M-alk	P-aik	Fe	na e T	The Physical			
Wt-P	rod.					T				
Inv/C	ord.									
No.	System	Test	Range	Last Test	Today's Test,		Comments .			
1	20,000 gal. Diesel	Steel /Soil	85 volts	New Account	925		in DEQ compliance			
2	20,000 gal. Diesel	"	97	11	<u>9</u> 05		#1			
3	6,000 gal. Lube Oil	11	**	17	- 1. 003					
- <u>`</u> -	0,000 gai. Lube Oil			 	- 1. 003	··· <u>·</u> ····				
4	Product Lines				Environ	f	n			
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		B 2 4 4	<u></u>							
LICTL		_1 _ 1 _ 1 _ DEC		mmendations:						
USIS	are cathodically protect	ed and are in DEC	compliance for c	orrosion control.						
					····					
L										
Cu	stomer Name: Linda B	Frown			CPS Tech Name:	Roger Fernar	dez DEQ # 15070			
	ner Signature:		<u> </u>	CD	S Tech Signature:					
Custoff	ici signatuic.			Cr	o reen orginature:					

Corrosion Protection Services, LLC.

P.O. Box 1374 Oregon City, OR 97045 CCB#153233- Reg#CORROPS985RZ

Phone: 503-655-9488 Fax: 503-655-6150



Invoice

Date	Invoice #
6/23/2004	1270

	NNOVATIVE BY
Astro	

Bill To	
Foss Maritime Company 9030 N.W. St. Helens Road	
Portland, OR 97231	

Ship To		
	 	

	P.O. No. Terms Salesperson Ship Date		Ship Date	Ship Via		
		Linda Brown	Net 10 days	AGV	6/22/2004	CPS
Qty		Description		Unit	Price	Total
		Cathodic Protection Perfection Pe	formance Test with writ	ten	395.00	395.00
	-		75	•		
		- 637	S • • • • • • • • • • • • • • • • • • •			
	1,5	المراكب				
	De		6			

A finance charge of 1 1/2% will be added to balances over 30 days past due.

Total

\$395.00



Corrosion Protection Services, LLC

20435 S. Leland Rd. Oregon City Or, 97045 (503) 655-9488 FAX (503) 655-6150 www.comosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

Call Art Van Alstine or Roger Fernandez
UST-Tank Services Contract
:UST-Cathodic Protection-Internal Lining Inspection-Lining Repairs-Tank Video:
This contract is made and entered into this 10 day of August, 2004, by and between Corrosion Protection Services, LLc (Hereinaster referred to as "Contractor") & Owner: Foss Unautime Cor. (Hereinaster referred to as owner) DBA as Same Located at 9030 M. W. St. Helius Rd. Pollar Phone 503-978-6546 Fax 735-4976
(Hereinafter referred to as owner) DBA as Same Located at 9030 M. W. St. Helens Rd. Portland Phone 503-978-6546 Fax 735-4976 Where as, the owner has decided to contract a DEQ Compliance Rapairon 3 UST's at DEQ Facility # 7374 for several and ground Bell as per the scope of work outlined on the attached pre opo SAL I (hereinafter as the Project). Name Contact: LINDA BROWN.
Where as, the contractor has submitted a proposal for the Project & a start time schedule of $\frac{\theta/21/o + \phi}{2}$.
Where as the Owner is awarding a contract to the Contractor for the completion of the Project.
Now Therefore, in consideration of the promises, covenants and conditions contained herein and in the Contract Documents (as hereinafter defined), and the payments to be made hereunder, the Contractor & the Owner agree as follows: Contract Documents are # 1 through # 5.
Total Amount of Contract is: $\$4,974.70$. / with 50% Downpayment of $\$3,474.70$. placed with the order and the balance due of $\$3,500$. upon Project completion.
1. Unusual circumstances are not part of this contract: such as: sludge in tanks, unusual weather conditions, power outages, accident on site by others and any other condition that restricts progress of the project will result in a change order signed by owner for additional compensation on a time and materials basis. 2. Contractor shall perform all work outlined by the scope of work in the proposal including but not limited to all labor, materials, tools, equipment necessary and incidental to the completion of project. Project to be completed to DOE/DEQ and National Association of Corrosion and Coating Engineers Standards and Specifications.
3. Completion of the project by the Contractor will be in a timely manner so as to have minimum down time and loss of business as possible.
4. Owner agrees to pay the Contractor for the performance of the work and any change orders, state/federal taxes, inspections or additional insured costs that may be incurred concerning the Project. All reports, drawings and DOE/DEQ performance data will be sent to the Owner by the Contractor when final payment is received. If attorney fees or court costs are incurred to enforce the provisions of this contract, such costs will be paid by the Owner and awarded to the Contractor.
5. Guarantee: Five years on Tank Lining Repairs and Cathodic Protection Rectifiers: 20 year life on anode
groundbeds and one year on defects in workmanship and materials. Suarantu on repairs, Sun Super III Thur V I Van Clothe
OWNER CONTRACTOR 8/10/04 F1D # 4812 77756
Company: Foss Maritime Co. Corrosion Protection Services, LLc
PO: #515685

Date: 6/25/2004

From: Art Van Alstine

Bid Proposal:

1067 DEQ #7374



Corrosion Protection Services, LLC

20435 S. LELAND RD, OREGON CITY, OR 97045 (503) 655-9488 FAX (503) 655-6150 Call Art Van Alstine or Roger Fernandez

		Business # 3440 OAME Member			. i	
	Foss Maritime Co.	_		UST- Cut H	eader	cable
	9030 N.W. St. Helens Rd.	Cell:	Address:			
	Portland, OR 97231	Phone: 503-978-6546	Cty/St/Zip:			
Contact:	Linda Brown	Fax: 503-735-4976	Contact:		•	
Quantity		Item Description				
	Replace Header Cable for 7 buried a	nodes to DEQ requirements, Reports &	Testing.			
1	Saw cut 125 'of asphalt and lay new					
1	Jack hammer out concrete over the a	nodes.				
1	Re-splice the 7 annodes to the new a	node header cable.				
				<u> </u>		
1	Seal the saw cut area and cement over	er the anodes.				
	Materials:					
150	Feet of #8 - HMWPE Header Cable					
1	Splice kit: 82-A1 final splice kit on l					
	Splice kits: 90-B1 for sealing splices	on each anode.				
150	Feet of saw cut sealer.					
	Bags of Redi-Mix					
2	Boxes of Black Pigment.					
	Equipment Rental:			 _		
	Concrete Jack Hammer	· -				
11	Asphalt Saw Cutter.					
	T 7 11					
16	Hours Installation:					
1	Final Testing and Small senants require	ed for DEQ Compliance, Includes 30 d	6. 2 doss	·		
	notices for beginning repairs.	ed for DEQ Compnance, includes 30 di	ay & 3 uay			
	notices for beginning repairs.					
		·				
						
				Here.	微型数	244
				IN A	***	(°2,7%)
	**************************************		· · · · · · · · · · · · · · · · · · ·	SIMI	NACE FRATIO	NA SE
				ROGE	RA. FERNA	NDEZ
	Warranty: 2 years on workmanship as	nd materials.		- Total	344U	7 <u>š</u>
				The So	~	7 air
T j			· · · · · · · · · · · · · · · · · · ·	THE SP	on an	miles
Summary:	Thanks for the opportunity to submit	this proposal & the consideration			\$	4,974.70
t will receive	. I will forward with this proposal or	ur National Association of Corrosion				
ngineers Ce	rtification for Design, Installation and	Repairs along with the certification	G	rand Total:	\$	4,974.70
		s for tank owners to have all of the cert	ifications for testing a	ınd repairs in	your	file
long with the	e 60 day log for checking the rectifier	for compliance.				
						

Corrosion Protection Services, LLC.

P.O. Box 1374 Oregon City, OR 97045 CCB#153233- Reg#CORROPS985RZ

Phone: 503-655-9488 Fax: 503-655-6150



Invoice

Date	Invoice #
6/16/2006	1546

Bill To			Ship	То				
Foss Maritime Compa 9030 N.W. St. Helens Portland, OR 97231	ny Road							
		P.O. No.	Terms	Si	alesperson	Ship Da	te	Ship Via
		Linda Brown	Net 10 days		AGV	6/8/200	6	CPS
Qty		Description		*	Unit	Price		Total
	Cathodic Protecti	on Annual DEQ Testing	g -2006			395.00		395.00
		REC'D JUN	20 2006					
A finance charge of 1 1/2	2% will be added to t	palances over 30 days pa	ast due.		Total			\$395.00



$C_{orrosion} \ P_{rotection} \ S_{ervices, \ LLC}$

20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 655-9488 Fax: (503) 655-6150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Date: 6/8/2006 Contact: Linda Brown Cell:

Account: Foss Maritime Co. Address: 9030 N. W. St Helens Rd. Phone: 503-978-6546

Fax: 503-735-4976 **DEQ-DOE DEQ - # 7374** City/ST/Zip: Portland, OR 97231 **Corrosion Test Monitoring Field Report** Equipment Data: Rectifier: Benchmark Model BPS 72 volt 6 amperes Serial # 99811419 2-20,000 gal. Diesel, 1-6,000 lube oil Output: 50.5 volts 3.2 amperes Tap Settings: C-3 CP-Testing: X Combustion: Burner Service: Water Treatment: TH Mhos Well Soft City Analysis Ph Si M-alk P-alk Fe Wt-Prod. Inv/Ord. Last Test Today's Test Comments Range System Test No. - 1. 290 UST is in DEQ compliance - .918 1 20,000 gal. Diesel Steel /Soil - . 85 volts 2 20,000 gal. Diesel - . 895 - 1.354 - . 984 - 1. 624 3 6,000 gal. Lube Oil 4 **Product Lines** None **Environ Piping** Piping is in DEQ compliance RECD JUN 20 2006 : Recommendations : Linda and Vince: Your USTs are cathodically protected and are in DEQ compliance for corrosion control. Conducted Cathodic Protection tests for 2006. We have had a wet year and the test show the difference in testing when the soil is dry and then in early June when we have had lots of rainfall. This test is a little early but will suffice for DEQ as we try to alternate every few years to be sure protection is being provided each year from the wet to dry seasons. Made the drawing for the Cathodic Protection system for your records. I will send you a copy of Jeff Pike DEQ credentials for your file also.

Customer Name:	Foss Maritime Co.	CPS Tech Name: Jeffrey Pike: DEQ # 252892
Customer Signature:	Linda Brown	CPS Tech Signature: Jeffrey Pike



Corresion Protection Services, LLC

20435 S., Leland Rd. Oregon City Or, 97045 (503) 625-9488 FAX (503) 625-6158

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NF/8 and BBB Member

Cell Art Van Alstine or Roger Fernandez

Fax Cover and Information Request

Date: 6/28/04 Facel 503-735-4976 Phonest Pages 3.

To Sinla From: Foss Maritime From: Art Van Alstine:

Phone: 503-655-9488 Fax: 503-655-6150 > E-Mail: arturo 110229@sol Com

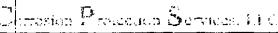
Forgot the report and Rogers Stamps

for (MACE) Matterial Association of Correction

Engineers.

I stamped the proposal for your prisentation to surragement.





20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 855-9488 Fax: (503) 855-8150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

Date: 6/22/2004	Contact: Linda Brown
Account: Foss Maritime Co.	Address: 9030 N. W. St Helen
· ·	

Address: 9030 N. W. St Helens Rd. Phone: 503-978-6546 ity/ST/Zip: Portland, OR 97231 Fax: 503-735-4976

Cell:

DEQ-	DOE <u>DEQ - # 7374</u>		City/ST/Zip:	Portland, OR 972	31	Fax: 503-735-4976
		C	orrosion Test!	Monitoring Fiel	d Report	
Equir	ment Data: Rectifier: B	enchmark Model	BPS 72 volt 6 ar	mperes 2-20,000 ga	al. Diesel, 1-6,000	lube oil
	t: 50.0 volts 3.8 amper					
Tap S	ettings: C-3			,,·		
				•		
Wat	er Treatment:	Comb	ustion:	Burner	Service:	CP-Testing: X
-	City		Well	Soft	TH	Mhos
Analy	ysis Si		/I-alk	P-alk	Fe	Ph
Wt-Pr	rod.					
Inv/C	ord.					
No.	System	Test	Range	Last Test	Today's Test	Comments
1	20,000 gal. Diesel	Steel /Soil	85 vélts	New Account	925	UST is in DEQ compliance
2	20,000 gal. Diesel	H .	н	He was been the	905	н
· 3	6,000 gal. Lube Oil	н	· · ·	<u> </u>	- 1. 003	и
<u></u>	O,000 East Date Off				4.7	
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						MACE C
	<u> </u>					ROGER A. FERNANDEZ 3440
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<u> </u>				· · · · · · · · · · · · · · · · · · ·		Manual Ma
						aitline
			7			
<u> </u>						
				nmendations :		
USTs a	are cathodically protecte	d and are in DEQ	compliance for co	rrosion control.		
n	NY - Jude 77h - Lander on	hi - 6 7	:_ :_ :_ :_ : = : : : : : : : : : : :	1:65 P		11. 41.7
						soon as possible. All 7 anodes need to
						r cable trench for proper r cable. The next 3 years will
						e groundbed life for these
	would have been for a n					
						
	tomer Name: Linda Br	OWIL	 _		-	Roger Fernandez DEQ # 15070
Custom	er Signature:			CP9	S Tech Signature	

Date: 6/25/2004

From: Art Van Alstine

Bid Proposal:

1067 DEQ #7374



Corrosion Protection Services, LLC

20435 S. LELAND RD, OREGON CITY, OR 97045 (503) 655-9488 FAX (503) 655-6150 Call Art Van Alatine or Roger Fernandez

	Emerging Small Busines	s # 3440	OAME Member			╛	
	Foss Maritime Co.	•			UST- Cut	Header	cable
	9030 N.W. St. Helens Rd.	; Cell:		Address:			
Cty/St/Zip:	Portland, OR 97231	Phone:	503-978-6546	Cty/St/Zip:			
Contact:	Linda Brown	Fax:	503-735-4976	Contact:			
Quantity	= = - · · · · · · · · · · · · · · · · ·	1	tem Description				
Quanty	Replace Header Cable for 7 buried anodes to I			Testing.			
							
1	Saw cut 125 of asphalt and lay new header ca	ble for an	ode attachment.				
1	Jack hammer out concrete over the anodes.						
			····				
1	Re-splice the 7 annodes to the new anode head	er cable.					
						,	
1	Seal the saw cut area and cement over the another	ies.					
	Materials:						
150	Feet of # 8 - HMWPE Header Cable for direct	burial. St	anded copper.				
1	Splice kit: 82-A1 final splice kit on header cal	ole.					
6	Splice kits: 90-B1 for sealing splices on each a	node.					
150	Feet of saw cut sealer.						
4	Bags of Redi-Mix				_		
2	Boxes of Black Pigment.						
			-			-	
	Equipment Rental:					ir ÷	J. 1 J.
	Concrete Jack Hammer						
1	Asphalt Saw Cutter.						
16	Hours Installation:		<u> </u>				
	· · · · · · · · · · · · · · · · · · ·						
	inal Testing and final reports required for DE	Q Compli	ince. Includes 30 da	y & 3 day			
ir	notices for beginning repairs.						
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	<u> </u>	:				HILLIAN CO.	11.
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	Varranty: 2 years on workmanship and materia	16					
	varranty. 2 years on workmanship and material	is.			- E .C		<u> </u>
				<u> </u>	Tay, Sp.	SCIAL	21 111.
						WHITE OF	
Summary: T	hanks for the opportunity to submit this propo	sal & the	consideration			S	4,974.70
	I will forward with this proposal our National						7,277.10
	ification for Design, Installation and Repairs a			Gr	and Total:	S	4,974.70
	or ontractors license. The DEQ likes for tank of						
	60 day log for checking the rectifier for compl				-u repairs n	. y ca	
							

STATE OF OREGON CONSTRUCTION CONTRACTORS BOARD LICENSE CERTIFICATE

This certifies that the person named hereon is licensed as provided by law as a

General Contractor/All

EXEMPT

Limited Liability Company

License

153233 Number:

License

F01.0

Expires: 10/23/2004

CORROSION PROTECTION SERVICES LLC

PO BOX 1374

OREGON CITY OR 97045

CARD

TACH

ARRY

WITH

YOU

AND

STATE OF OREGON

No. 153233

General Contractor/All

EXEMPT

Limited Liability Company

CORROSION PROTECTION SERVICES LLC

PO BOX 1374

Licensed as:

OREGON CITY OR 97045

CONSTRUCTION CONTRACTORS BOARD

\$ 150DD Bond

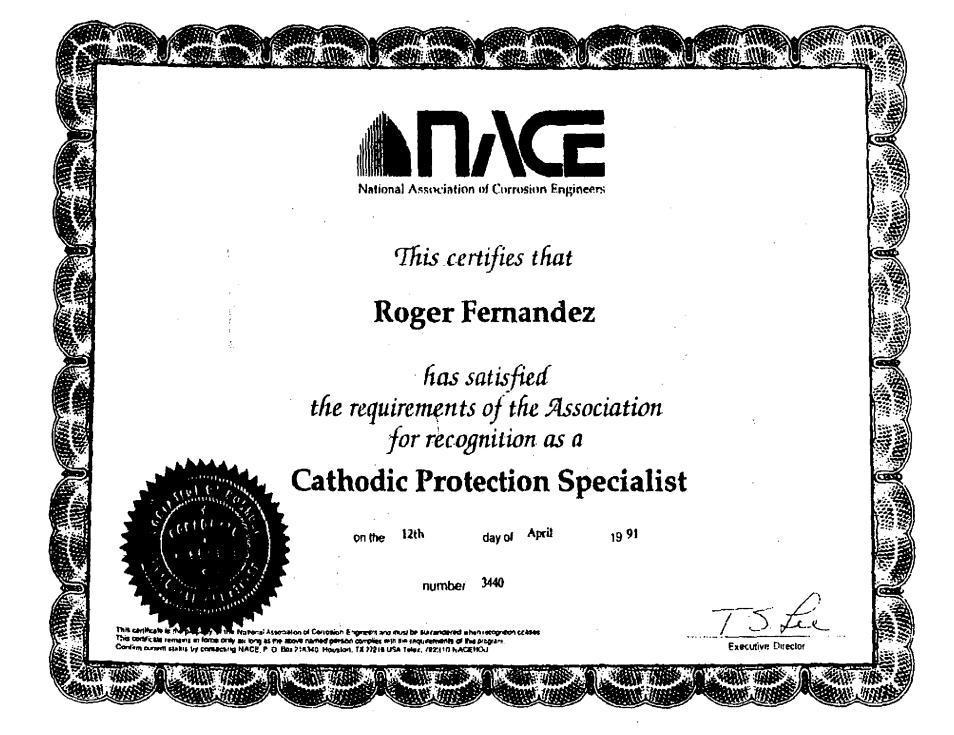
AMERICAN STATES INS Insurance

D1CE7601303

License Expires: 30/23/2004

Employer Accounts: ON FILE

DBA(S) ON FILE:





_orrosion ervices, LLC

20435 S. Leland Rd. Oregon City Or, 97045 (503) 655-9488 FAX (503) 655-6150 www.comosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

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Call Art Van Alstine or Roger Fernandez

PRODUCT AND SERVICES LINE DATA

CPS, LLc since 1982 has serviced the needs of the UST-Program, Water Main & Natural Gas Utilities & HVAC Industries. We supply Cathodic Protection Design, Materials, Testing, Repairs & Installations for DEQ & DOE Compliance.

We offer 10 & 5 year UST-Manned-Entry Interior Lining & Stee! Tank Integrity Inspections for DEQ Compliance. We are able to offer Manned-Entry Inspections at near the video cost. Repairs can be done the same day

DEQ/DOE - Service Providers License: Corrosion Protection Services, LLc.: # 10743: Expires 6-16-2006 DEQ/DOE - Cathodic Protection & Coating Supervisor: Roger Frenandez # 15070: Expires 11-3-2005 N.A.C.E. - Cathodic Protection & Exterior Coatings and Interior Lining Specialist # 3440: Expires 1-01-2008 DEQ/DOE - Cathodic Protection Technician Supervisor; Brian Van Alstine # 11471; Expires 5-04-2006 N.A.C.E. - Cathodic Protection & Coating Technician Certified: Brian Van Alstine # 5292: Expires 1/01/2009

Corrosion Protection Services, LLc-Oregon Contractors Board License # 153233: 10-23-04 Corrosion Protection Services, LLc-Washington Contractors Board License # Corrops 985RZ: 12-20-04

WE PROVIDE UST - TANK & LINE TIGHTNESS TESTING for DEQ/DOE COMPLIANCE IN OR.AND WA.

: Cathodic Protection References :

City of Beaverton: T-Mobil. 1.75 M. gal.water tank , Bob George P.E. 503-526-2228

Leathers Oil Co. - Gresham OR - Harry Staten (503) 661-1244

Stein Oil Co. - Gladstone OR - Royal Proctor (503) 781-7668

Staub Oil Co. - Lakeview OR - David Staub (541) 947-2101

Cummings Transfer Co. - Albany OR - Mark Clement (541) 928-3386

Hattenhauer Distributors - The Dalles OR - Alex Hattenhauer (541) 296-3515

Truax Petroleum Co. - Corvallis OR - Russ Stemberg (541) 758-1500

Bend Oil Co. - Bend OR - Rob Nordby (541) 382-4751

Morse Bros. Sand & Gravel - Troutdale OR - Dave (503) 666-5577

Colvin Oil Co. - Grants Pass OR - Casey (541) 479-5343

American Energy - Bend OR - Greg Vernon (541) 383-3097

Black Oil Co. - Baker OR - Bob Black (541) 523-4575

Abbott Oil Co. - Bend OR - Jeff Abbott (541) 382-3961

ODOT Aviation Division - Independence and Cottage Grove - Dan Eavy (503) 378-8669 Ext. 2334

Deschutes County Public Works - Bend OR - Dennis Morris (541) 388-6581

City of Astoria - Astoria OR - Ken Cook (503) 325-3524

Veri-Tank Corp. (Watchdog Program) in Oregon, Washington, Idaho, & Montana Cathodic Protection Testing on over 1000 Stip-3 Tanks in 2001 & 2002 - Leslie Kennedy (847) 438-8265 Ext. 248

ALL PRODUCTS & SERVICES CARRY A MONEY BACK SATISFACTION GUARANTEE

Call Art Van Alstine or Roger Fernandez @ (503) 655-9488 for price quote on Cathodic Protection Design, Materials Installation, Test Monitoring and Repairs.

WE HAVE THE LARGEST STOCK OF CATHODIC PROTECTION MATERIALS In Oregon & Washington So. of Everett



Corrosion Protection Services, LLC

20435 S. Leland Rd. Oregon City Or, 97045 (503) 655-9488 FAX (503) 655-6150 www.corrosionprotectionservices.com

OR CCB: 153233 WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

Call Art Van Alstine or Roger Fernandez

EMERGING SMALL BUSINESS # 3440

< REFERENCES >

:Awarded & Completed Contracts for Cathodic Protection:

4/2004 - Oaklodge Sanitary District, 12 inch pipe protection: Triad Mechanical	> Cliff Frazer	503-289-9000
1/2004 - Six Pump Distribution Stations, City of Vancouver : :Митау Smith & Assoc.	>Sandrine Ganry	, 503-225-9010
4/2004 - St Charles Hospital, Bend, OR< 2 " Nat. Gas Line: Kinetic's Group Inc.	>Greg Cannon,	503-780-1301
4/2004 - Hudson Intertie, City of Portland, Bull Run Water Project : Moore Excavation	>Don Jandreau,	503-252-1180
4/2004 - Cornelius Pass Hwy 26 Interchange: City of Hillsboro : Kerr Contractors	>Alan Aplin,	503-692-5514
4/2004 - S. Waterfront Dist. Phase 1 & 2:, 12 * pipeline : Williams & Ryan Const.	>Bill Webb,	503-350-1882
4/2004 - King's Heights, City of Portland, 12" pipeline : Werbin West Contracting	>J.F. Werbin,	503-888-9452
3/2004 - Street Car, Riverplace Ext. Pipeline and crossings: Werbin West Contracting	>J.F. Werbin,	503-888-9452
3/2004 - Albany-Millersberg, 2-300 ' deep wells & pipeline: RCI & R & G Excavating Inc	>Del Vidler, 1	-503-931-7467
11/2003 -105 th & N. E. Clark St. Project: City of Portland: Nutter Underground Inc.	>Mike Brunnell,1-	360-907-9427
11/2003 -105 th & N. E. Clark St. Project: City of Portland: Nutter Underground Inc. 09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc.	>Mike Brunnell,1- >Jake Ausmus,	
	>Jake Ausmus,	
09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc.	>Jake Ausmus,	503-656-7000 503-526-2792
09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc. 04/2003 - 1.75 M Water Tank, Verizon Wireless T-Mobile USA-, City of Beaverton Project	>Jake Ausmus, t>Bob George,	503-656-7000 503-526-2792 503-969-1600
09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc. 04/2003 - 1.75 M Water Tank, Verizon Wireless T-Mobile USA-, City of Beaverton Project 01/2003- Kinsman Rd. Project City of Wilsonville: Kerr Contractors Inc	>Jake Ausmus, t>Bob George, >Casey Carter,	503-656-7000 503-526-2792 503-969-1600 503-654-3104
09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc. 04/2003 - 1.75 M Water Tank, Verizon Wireless T-Mobile USA-, City of Beaverton Project 01/2003 - Kinsman Rd. Project City of Wilsonville: Kerr Contractors Inc 01/2003 - N.E. Oregon St. Project: City of Sherwood: Copenhagen Utilities Inc.	>Jake Ausmus, t:>Bob George, >Casey Carter, >Duane Nelson,	503-656-7000 503-526-2792 503-969-1600 503-654-3104
09/2003 - OHSU Pipeline Project, City of Portland: Coffman Excavating Inc. 04/2003 - 1.75 M Water Tank, Verizon Wireless T-Mobile USA-, City of Beaverton Project 01/2003 - Kinsman Rd. Project City of Wilsonville: Kerr Contractors Inc 01/2003 - N.E. Oregon St. Project: City of Sherwood: Copenhagen Utilities Inc. 08/2002 - Tri-Met Interstate Max & 10 C Projects: City of Portland: Dirt & Aggregate Inc.	>Jake Ausmus, t>Bob George, >Casey Carter, >Duane Nelson, >Warren Olson,	503-656-7000 503-526-2792 503-969-1600 503-654-3104 503-793-0369



Pike's Unlimited

3258 Cascade Hwy NE Silverton, OR 97381

Phone Number 503-873-8070 Fax Number 503 873 4139

Web Address Email

Fax Transmittal Form

To: Linda From: Jeff Pike
Name: Date Sent:
CC:
Phone: Number of Pages:2
Fax:

Message:

Hi Linda

Here is the as built for the cp system. You should be ready for inspection I had one with Greg Friday and discussed the Missing two month he was ok With it. You will have no problem getting a A on the inspection.

Jeff

Coulumbia River

Anoide Burial Depth 3' Pipe Depth 2' 6"

Galvanic Anoide

56" long

FROM :PIKE'S UNLIMITED

Header wire





Dertification Certification Monitor



Evaluation of the Incon Automatic Tank Gauging System for Monthly Monitoring on Underground Storage Tanks up to 30,000 gallons

(Models: TS-1000; TS-1001; TS-2001)

EPA Forms

PREPARED FOR Incon (Intelligent Controls, Inc.)

May 14, 1998



Ken Wilcox Associates, Inc. 1125 Valley Ridge Drive, Grain Valley, MO 64029, USA Voice (816) 443-2494, Fax (816) 443-2495 E-mail info@kwaleak.com, Web http://www.kwaleak.com

Preface

This report describes testing conducted on the Incon Automatic Tank Gauging System. The results of this evaluation apply to the following models: TS-1000; TS-1001; and TS-2001. This evaluation meets the requirements of the U.S. Environmental Protection Agency for Automatic Tank Gauging Systems for Monthly Monitoring for 0.2 gal/h leaks of Underground Storage Tanks up to 30,000 gallons in volume. The forms contained in this report are based on data collected using the EPA protocol "Standard Test Procedures for Evaluating Leak Detection Methods: Automatic Tank Gauging Systems", EPA/530/UST-90/006, March 1990. Ken Wilcox Associates, Inc. prepared this report and conducted all of the leak simulations, data collection, and data analysis.

The system also meets the National Work Group on Leak Detection Evaluations (NWGLDE) ¹ requirements for Automatic Tank Gauging Systems for testing below the 50% product level.²

Volume 1 of this evaluation contains the Final Report and Volume 2 contains the Test Data. This report was prepared by Mr. Jeffrey K. Wilcox, Ken Wilcox Associates, Inc. Technical Questions regarding this evaluation should be directed to Mr. Michael Johnson, Incon (Intelligent Controls, Inc.), at (207) 283-0156.

KEN WILCOX ASSOCIATES, INC.

Jeffrey K. Wilcox, M.E.S. Project Engineer

Approved:

H. Kendall Wilcox, Ph.D. President

May 14, 1998

¹ The National Work Group for Leak Detection Evaluations consists of a group of State and Federal Regulators that review leak detection evaluations, new evaluation protocols, and other issues affecting the leak detection and underground storage tank industry.

² Letter from the Automatic Tank Gauge and Volumetric Tank Tightness Testing Committees of the NWGLDE to Gauge Vendors and other interested parties, April 28, 1997.

Results of U.S. EPA Standard Evaluation Automatic Tank Gauging System (ATGS)

This form tells whether the automatic tank gauging system (ATGS) described below complies with the performance requirements of the federal underground storage tank regulation. The evaluation was conducted by the equipment manufacturer or a consultant to the manufacturer according to the U.S. EPA's "Standard Test Procedure for Evaluating Leak Detection Methods: Automatic Tank Gauging Systems." The full evaluation report also includes a form describing the method and a form summarizing the test data.

Tank owners using this leak detection system should keep this form on file to provide compliance with the federal regulations. Tank owners should check with State and local agencies to make sure this form satisfies their requirements.

ATGS Desc	ription		
Name Incon	Automatic Tank	Gauging System	
Version num	ber <u>TS-1000; TS</u> -	1001; TS-2001	
Vendor Incor	n, Inc. (Intelligent	Controls)	
74 Industrial (street address			
Saco,	Maine	04072	(207) 283-0156
(city)	(state)	(zip)	(phone)

Evaluation Results

This ATGS which declares tank to be leaking when the measured leak rate exceeds the threshold of 0.10 gallon per hour, has a probability of false alarms [P_{FA}] of 4.3 %.

The corresponding probability of detection $[P_D]$ of a 0.20 gallon per hour leak is 95.7%.

The minimum water level (threshold) in the tank that the ATGS can detect is <u>0.208</u> inch.

The minimum change in water level that can be detected by the ATGS is <u>0.011</u> inches (provided that the water level is above the threshold).

Therefore, this ATGS (**X**) does () does not meet the **federal** performance standards established by the U.S. Environmental Protection Agency (0.20 gallon per hour at P_D of 95% and P_{FA} of 5%), and this ATGS (**X**) does () does not meet the **federal** performance standard of measuring water in the bottom of the tank to the nearest 1/8 inch.

Test Conditions During Evaluation

The evaluation testing was conducted in a 20,000 gallon () steel (X) fiberglass tank that was 120 inches in diameter and 453 inches long.

The temperature difference between product added to fill the tank and product already in the tank ranged from <u>-6.9</u> deg F to <u>+5.6</u> deg F, with a standard deviation of <u>_5.2</u> deg F.

The tests were conducted with the tank product levels <u>50</u> to <u>95</u> % full.

The product used in the evaluation was diesel fuel.

ATGS - Results Form Page 1 of 2

Name of ATGS Incon Automatic Tank Gaug	ing System
Version <u>TS-1000; TS-1001; TS-2001</u>	
Limitations on the Results	
The performance estimates above are only v	alid when:
м The method has not been substantia	ally changed.
м The vendor's instructions for installi	ng ad operating the ATGS are followed.
м The tank contains a product identifie	ed on the method description form.
м The tank is no larger than <u>30,000</u> g	ailons.
м The tank is at least <u>See Note Belo</u>	w ¹ percent full.
м The waiting time after adding any sub	estantial amount of product to the tank is 4^2 hours.
м The temperature of the added produ Fahrenheit from that already in	oct does not differ more than <u>±7.8</u> degrees the tank.
м The total data collection time for the	test is at least See note below 3 hours.
м Other limitations specified by the ver	ndor of determined during testing:
none	
 Safety disclaimer: This test procedure ability to detect leaks. It does not test t Certification of Results 	only addresses the issue of the ATG system's the equipment for safety hazards.
I certify that the ATGS was installed and opera	ated according to the vendor's instructions and that otained during the evaluation. I also certify that the following:
(X) standard EPA test procedure for ATGS() alternative EPA test procedure for ATGS	
H. Kendall Wilcox, Ph.D., President (printed name)	Ken Wilcox Associates, Inc. (organization performing evaluation)
(signature)	Grain Valley, Missouri 64029 (city, state. zip)
May 14, 1998 (date)	(816) 443-2494 (phone number)

ATGS - Results Form

Page 2 of 2

¹ Ten percent is the minimum percent full for conducting a valid test on the tank used in the evaluation. The minimum product level at which a valid test can be conducted is dependent on the length of the probe. See the attached table for a list of probe lengths and their respective minimum test levels.

² Waiting times after deliveries ranged from 2 hrs 58 minutes to 6 hrs and averaged 4 hrs 9 minutes.

³ The Incon ATGS automatically determines the length of the test based upon the quality of the test data. Test times for this evaluation ranged from 6 hrs 19 minutes to 8 hrs and averaged 6 hrs 51 minutes. Test times will generally be longer for larger tanks.

Reporting Form for Leak Rate Data Automatic Tank Gauging System (ATGS)

ATGS Name and Version: Incon ATGS Models: TS-1000; TS-1001; TS-2001

Evaluation Period: from 19-Dec-96 to 15-Sept-97 (Dates)

	Date at	Time at	-	<u> </u>		Product				
	Completion	Completion	Date Test	Time Test	Time Test	Temperature	Nominal	Induced	Measured	MeasInd.
	of Last Fill	of Last Fill	Began	Began	Ended	Differential	Leak Rate	Leak Rate	Leak Rate	Leak Rate
Test No.	(d-m-y)	(military)	(d-m-y)	(military)	(military)	(deg F)	(gal/h)	(gal/h)	(gal/h)	(gal/h)
								And the second second		
1	19-Dec-96	1238	19-Dec-96	1638	2306	-0.4	0.2	-0.206	-0.21	-0.004
2	19-Dec-96	1238	20-Dec-96	0038	0659	-0.4	0	0.000	0.02	0.020
3	Test aborted of	lue to test site	operational pro	blems - Replac	ced by Test 21					
4	Test aborted of	lue to test site	operational pro	blems - Replac	ced by Test 22					
5	28-Dec-96	1630	28-Dec-96	2030	0430	5.6	0.1	-0.091	-0.07	0.021
6	28-Dec-96	1630	29-Dec-96	1107	1842	5.6	0.2	-0.168	-0.23	-0.062
7	29-Dec-96	2035	29-Dec-96	2330	0549	5.6	0	0.000	0.02	0.020
8	29-Dec-96	2035	30-Dec-96	1058	1718	5.6	0.3	-0.257	-0.33	-0.073
9	30-Dec-96	1835	30-Dec-96	2235	0454	-6.9	0.3	-0.295	-0.19	0.105
10	30-Dec-96	1835	31-Dec-96	0846	1506	-6.9	0.2	-0.180	-0.21	-0.030
11	31-Dec-96	1620	31-Dec-96	2020	0239	-6.9	0.1	-0.087	-0.05	0.037
12	31-Dec-96	1620	01-Jan-97	1105	1724	-6.9	0	0.000	-0.01	-0.010
13	02-Jan-97	1009	02-Jan-97	1307	1927	-0.4	0.3	-0.244	-0.21	0.034
14	02-Jan-97	1009	02-Jan-97	2200	0559	-0.4	0.1	-0.152	-0.18	-0.028
15	03-Jan-97	1054	03-Jan-97	1200	1800	-0.4	0	0.000	-0.03	-0.030
16	03-Jan-97	1054	03-Jan-97	2100	0459	-0.4	0.1	-0.137	-0.18	-0.043
17	12-Jan-97	1737	12-Jan-97	1950	0210	-0.4	0.2	-0.243	-0.13	0.113
18	12-Jan-97	1737	13-Jan-97	0757	1417	-0.4	0.3	-0.298	-0.32	-0.022
19	13-Jan-97	1930	14-Jan-97	0130	0749	5.1	0.3	-0.303	-0.38	-0.077
20	13-Jan-97	1930	14-Jan-97	0754	1413	5.1	0	0.000	-0.04	-0.040
21	14-Jan-97	1525	14-Jan-97	1737	2356	5.1	0.2	-0.183	-0.11	0.073
22	14-Jan-97	1525	15-Jan-97	0300	0919	5.1	0.1	-0.077	-0.09	-0.013
23	13-Sep-97	1500	13-Sep-97	1900	0259	-5.8	0	0.000	-0.04	-0.040
24	13-Sep-97	1500	14-Sep-97	0510	1309	-5.8	0.1	-0.110	-0.11	0.000
25	14-Sep-97	2025	15-Sep-97	0025	0824	-5.8	0.2	-0.189	-0.11	0.079
26	14-Sep-97	2025	15-Sep-97	1022	1822	-5.8	0.3	-0.277	-0.39	-0.113

Description Automatic Tank Gauging System

This section describes briefly the important aspects of the automatic tank gauging system (ATGS). It is not intended to provide a thorough description of the principles behind the system or how the equipment works.

or how the equipment works.
ATGS Name and Version
Incon Automatic Tank Gauging System Models: TS-1000; TS-1001; TS-2001
Product
> Product type
For what products can this ATGS be used? (check all applicable)
(X) gasoline
(X) diesel
(X) aviation fuel
(X) fuel oil #4
() fuel oil #6
(X) solvents
(X) waste oil
(X) other (list) Solvents compatible with sensors and with known coefficients of expansion and densities. Contact manufacturer for specific applications.
> Product level
What product level is required to conduct a test?
() greater than 90% full
() greater than 50% full
(X) other (specify) Dependent on probe length - see attached table
Does the ATGS measure inflow of water as well as loss of product (gallon per hour)?
(X) yes
() no
Does the ATGS detect the presence of water in the bottom of the tank?
(X) yes
() no

ATGS - Description

Page 1 of 6

Level Measurement
What technique is used to measure changes in product volume?
() directly measure the volume of product change
() changes in head pressure
() changes in buoyancy of a probe
() mechanical level measure (e.g., ruler, dipstick)
() changes in capacitance
() ultrasonic
(X) change in level of float (specify principle, e.g., capacitance, magnetostrictive,
load cell, etc.) Magnetostrictive
() other (describe briefly)
Temperature Measurement
If product temperature is measured during a test, how many temperature sensors are used?
() single sensor, without circulation
() single sensor, with circulation
() 2-4 sensors
(X) 5 or more sensors
() temperature-averaging probe
If product temperature is measured during a test, what type of temperature sensor is used?
(X) resistance temperature detector (RTD)
() bimetallic strip
() quartz crystal
() thermistor
() other (describe briefly)
If product temperature is not measured during a test, why not?
() the factor measured for change in level/volume is independent of temperature (e.g., mass)
() the factor measured for change in level/volume self-compensates for changes in temperature
() other (explain briefly)

Page 2 of 6

Data Acquisition
How are the test data acquired and recorded?
() manually
() by strip chart
(X) by computer
Procedure information
> Waiting times
What is the minimum waiting period between adding a large volume of product (i.e., a delivery) and the beginning of a test (e.g., filling from 50% to 90-95% capacity)?
() no waiting period
() less than 3 hours
(X) 3-6 hours
() 7-12 hours
() more than 12 hours
() variable, depending on tank size, amount added, operator discretion, etc.
> Test duration
What is the minimum time for collecting data?
() less than 1 hour
() 1 hour
() 2 hours
() 3 hours
() 4 hours
(X) 5-10 hours
() more than 10 hours
() variable (explain)
· Total time
Vhat is the total time needed to test with this ATGS after a delivery? waiting time plus testing time)
10 hours 0 minutes (Assumes 4 hour waiting time and 6 hour testing time)

Page 3 of 6

What is the sampling frequency for the level and temperature measurements?
(X) more than once per second
() at least once per minute
() every 1-15 minutes
() every 16-30 minutes
() every 31-60 minutes
() less than once per hour
() variable (explain)
> Identifying and correcting for interfering factors
How does the ATGS determine the presence and level of the ground water above the bottor of the tank?
(X) observation well near tank
() information from USGS, etc.
(X) information from personnel on-site
(X) presence of water in the tank
() other (describe briefly)
() level of ground water above bottom of the tank not determined
How does the ATGS correct for the interference due to the presence of ground water above the bottom of the tank?
(X) system tests for water incursion
() different product levels tested and leak rates compared
() other (describe briefly)
() no action
How does the ATGS determine when tank deformation has stopped following delivery of product?
(X) wait a specified period of time before beginning test
 () watch the data trends and begin test when decrease in product level has stopped
() other (describe briefly)
() no procedure

Page 4 of 6

Are the temperature and level sensors calibrated before each test? () yes (X) no If not, how frequently are the sensors calibrated?
() weekly
() monthly
() yearly or less frequently
(X) never
> Interpreting test results
How are level changes converted to volume changes (i.e., how is height-to-volume conversion factor determined)?
() actual level changes observed when known volume is added or removed (e.g., liquid metal bar)
(X) theoretical ratio calculated from tank geometry
(X) interpolation from tank manufacturer's chart
() other (describe briefly)
() not applicable; volume measured directly
How is the coefficient of thermal expansion (Ce) of the product determined?
() actual sample taken for each test and Ce determined from specific gravity
(X) value supplied by vendor of product
(X) average value for type of product
() other (describe briefly)
How is the leak rate (gallon per hour) calculated?
() average of subsets of all data collected
() difference between first and last data collected
() from data from last hours of test period
(X) from data determined to be valid by statistical analysis
() other (describe)

What threshold value for product volume change (gallon per hour) is used to declare that a tank is leaking?
() 0.05 gallon per hour
(X) 0.10 gallon per hour (for Monthly Monitoring)
() 0.20 gallon per hour
() other (list)
Under what conditions are test results considered inconclusive?
(X) too much variability in the data (standard deviation beyond a given value)
() unexplained product volume increase
() other (describe briefly)
Exceptions
Are there any conditions under which a test should not be conducted?
() water in the excavation zone
() large difference between ground temperature and delivered product temperature
() extremely high or low ambient temperature
() invalid for some products (specify)
(X) other (describe briefly) <u>none</u>
What are acceptable deviations from the standard testing protocol?
(X) none
() lengthen the duration of test
() other (describe briefly)
What elements of the test procedure are determined by personnel on-site?
(X) product level when test is conducted
(X) when to conduct test
() waiting period between filling tank and beginning test
() length of test
() determination that tank deformation has subsided
() determination of "outlier" data that may be discarded
() other (describe briefly)
() none

Page 6 of 6

Attachment 1

Results of U.S. EPA Standard Evaluation Automatic Tank Gauging System (ATGS)

Standard Lengths for Incon Probes (Low level testing information)

Standard Probe Tank Length Diameter		Lowest Temperature Sensor from End of Shaft	Lowest Product Level for Valid Testing	
Alexander C			keal Cafficael	
29	24	2.68	8.68	
41	36	4.15	10.15	
53	48	5.62	11.62	
57	52	6.1	12.1	
69	64	7.57	13.57	
77	72	8.55	14.55	
81	76	9.04	15.04	
89	84	10.01	16.01	
101	96	11.48	17.48	
113	108	12.95	18.95	
125	120	14.41	20.41	
131	126	15.15	21.15	
137	132	15.88	21.88	
149	144	17.35	23.35	

linda

From:

DeVinney, Kevin [devinney@franklinfueling.com]

Sent:

Monday, May 15, 2006 1:50 PM

To:

linda@foss.com

Cc:

Knapp, Andrew

Subject: RE: INCON General Contact Form

The TS-1001 is certified to do static tank testing on the following:

- Monthly test can be performed on a tank up to 30,000 gallons
- Yearly test can be performed on a tank up to 15,000 gallons

So based on the total capacity of each tank, you are certified to do either tank test. If you have any further questions please let me know. Thanks.

Kevin DeVinney FMS Product Marketing Manager Franklin Fueling Systems 207.571.1191

From: linda@foss.com [mailto:linda@foss.com]

Sent: Monday, May 15, 2006 11:41 AM

To: Sales - Incon

Subject: INCON General Contact Form

Data Submitted to INCON

The following information was submitted to INCON Website at 12:40:57 PM on 5/15/2006.

Full Name

Linda Brown

Position

Marine Buyer

Company

Foss Maritime Co.

Street Address

9030 NW St. Helens Road

City

Portland

State

Oregon

Zip Code Country

97231 USA

Work Phone

503-978-6546

FAX

503-735-4976

linda@foss.com

Request Description We have an Incon TS-1001, serial # 55789. How do we determine if this is

configured for 15,000 gallon tanks, or for 30,000 gallon tanks?

REMOTE HOST: 206.129.252.2

HTTP_USER AGENT: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; NET CLR

1.1.4322)

5/15/2006



Department of Environmental Quality

811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

February 6, 2006

Jeffery G. Pike 3258 Cascade Hwy NE Silverton OR 97381

RE: UST Supervisor License

You are licensed by the State of Oregon to supervise regulated underground storage tank services while employed by a licensed UST Service Provider. Your license(s) to supervise specific regulated activities are valid until the expiration date(s) below.

Licensed Services	Lic Nbr	Expiration
Cathodic Protection	26449	05/18/2007
Tank Tightness Testing	25892	03/30/2007

Your license(s) are issued under the provisions of OAR 340-160-005 through 340-160-150 and OAR 340-162-005 through 340-162-150.

The identification card below serves as proof of current licensing and must be available for inspection when performing UST Supervisor activities.

If you have questions concerning your license please contact Steve Paiko at (503) 229-6652 or toll free (in Oregon) (800) 452-4011.

Sincerely,

Wendy Wiles

UST Program Manager UST Compliance Section

> 3258 Cascade Hwy NE Silverton OR 97381 LICENSED SERVICES

LIC # EXPIRES

Cathodic Protection Tank Tightness Testing 25092 03/30/2007

26449 05/18/2007

Supervisor Signature

Confidential Business Information

UST SERVICE PROVIDER LICENSE

This License is Issued by the Oregon Department of Environmental Quality to:

Pike's Unlimited 3258 Cascade Hwy NE Silverton OR 97381

You Are Licensed to Offer the Following Underground Storage Tank (UST) Services:

License Type

License Number

Issued

Expires

UST Services

25893

04/12/2006

04/27/2007

A Licensed Underground Storage Tank Supervisor Must be Present at a Site to Perform These Services.



Authorized by:

Wendy wife

Wendy Wiles UST Program Manager



A Copy of this License Shall be Available For Inspection at All Sites Involving UST Work.

Updated: 01-38-04

UST SERVICE PROVIDER LICENSE

This License is Issued by the Oregon Department of Environmental Quality to:

Corrosion Protection Services, LLC 20435 S. Leland Rd. Oregon City, OR 97045

You Are Licensed to Offer the Following Underground Storage Tank (UST) Services:

License Type

License Number

Issued

Service Provider

10743

April 15, 2004 16, 2005

A Licensed Underground Storage Tank Supervisor Must be Present at a Site to Perform These Services.



XXXXXX

XXXXXXX

ADDR ID: 111576

norman B. Ling

Alan D. Kiphut Authorized by: UST Program Manager



A Copy of this License Shall be Available For Inspection at All Sites Involving UST Work.

PAGE 01



Department of Environmental Quality

RII SW Sixth Avenue Portland, CR 97204-1390 (503) 229-5596

May 14. 2004

Roger A. Fernandez Corrusion Protection Services 20435 S Leland Rd Oregon City, OR 97065

12708 AD: 174285

RE: UST Supervisor License

You are licensed in the State of Oregon to supervise the conduct of services for regulated underground atorage tanks with valid parmits while employed by a licensed UST Service Provider. Your licenses to supervise specific regulated activities are valid until the dates shown below and on your license card.

Licensed Services

License Number

Expiration Date

Cathodic Protection Test

15070

03/20/2006

Your licenses are issued under the provisions of OAR 340-160-005 through 340-160-150 and OAR 340-162-005 through 340-162-150 and OAR 340-163-005 through 340-163-150. It does not license you to act as an UST Service Provider in Oregon.

Your license card (below) must be available on demand for inspection whenever you are working as an UST Supervisor.

Sincerely.

Wendy Wiles

UST Program Manager UST Compliance Section

> Roger A. Fernandez 20435 S Leland Rd Oregon City, DR 97045 LICEBSED SERVICES LICH

EXPIRES

Cathodic Protection I 15070 03/20/2006

158(3.1



Corresion Protection Services, LLC

20435 S. Leland Rd. Oregon City Or, 97045 (508)655-9468 FAX (503)655-6150

OR CCB: 153293 | WA REG: Comps985RZ

Emerging Small Business #340 | OAME Member | NFB and BBB Member | Call Art Van Alstine or Roger Fernandez

Fax Cover and Information Request

Date: 8/10/04 Fac	#503-735-4976	Phone# 503 -978	P-6546	Pages: 4
<i>y</i>	FINE FOSSMAN			
Phone: 503-655-9488	Faor: 503-655-6150	← E-Mail:	arturo 1 10229	@aol Com
Here is to	he contract	for the	e UST	project.
we will	contact DE	of with a	U the !	noticis
necessary.	Thanks 1	very muc	h for the	order.
we will a	have you	r site i	n EDA+	DEQ
We will a	- by the e	nd of the	month	
•	Thans	& Yar	_	
	Get 1	le Yan Van Aleka	re)	
	1			



FAX Transmission
From: Linda Brown Number of pages Faxed:
Foss Maritime Co. 9030 NW St. Helens Road
Portland, Oregon 97231 Fax Number: 503/735-4976 Questions? 503/286-0631
To:
company: Corrosion Protection SVCS.
Date: 811 04
Fax Number: ()
Signed contract Lollows.
Please note P.O. # at bottom
52 Page.
010
Need an invoice for the down-
sayment anount.
thanks.



Corrosion Protection Services, LLC

20435 S. Leland Rd, Oregon City, OR 97045 Phone: (503) 655-9488 Fax: (503) 655-6150 www.corrosionprotectionservices.com

OR CCB: 153233 | WA REG: Corrops985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

I	Date: 9	/11/2004			Contact:	: Linda Brown			Cell:	
Account: Foss Maritime Co.				Address: 9030 N. W. St Helens Rd.				Ph	Phone: 503-978-6546	
DEQ-DOE DEQ - # 7374				City/ST/Zip: Portland, OR 97231 Fax: 503-735-497					76	
				Correcti	on Tost ?	Monitoring Fie	ld Penort			
<u>L</u>							•			
				iel BPS 72	volt 6 ar	nperes 2-20,000 g	gal. Diesel, 1-6,00	00 lube oil		
		volts 3.8 ampe	res							
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		City	7 [Well		Soft	T	H	Mhos	T
Analy	ysis	Si		M-alk		P-alk	F		Ph	
TVA D			<u> </u>					7	1 1 1	
Wt-Pr						r - r		 		-
	/Iu.		<u> </u>			<u> </u>				
No.		System	Test		lange	Last Test	Today's Test		Comments	
11	20,0	00 gal. Diesel	Steel /Soil	8	35 volts	925	930	<u> </u>	Protected	
2	20.0	00 gal. Diesel	**		11	905	910	1	Destroyed	
	20,0	ou gai. Diesei				905	910		Protected	
3	6.000	gal. Lube Oil	н		n	- 1.003	- 1. 006	-	Protected	
. -	0,000	gai. Luce On					- 1. 000		Troccad	
4	Pr	oduct Lines		+					Environ	
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						mendations :				
JST's a	re cath	odically protecte	ed and are in DE	Q complia	ince for cor	rosion control.				
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				places that	nad cable p	orotruding was cor	npletely replaced a	ing the anod	es were	
espiice	u to the	new cable to the	е гесппет.							, .
Oger h	ac haa-	sent your fav ac	nceming the w	ork left to	do on the s	aw cut trench and	unsmooth concrete	natch haze	-de	
			tification # 3440		ao on uic s	an cut a cilcii alla	monitorii concict	- Paten naza	<u></u>	
P. 1								·		
Cust	omer N	lame: Linda Br	างเมา				CPS Tech Name:	Roger Ferns	ndez DEO# 150	170

Customer Signature:

CPS Tech Signature:



FAX Transmission o
From: Waa DOW Number of pages Faxed:
Foss Maritime Co. 9030 NW St. Helens Road
Portland, Oregon 97231 Fax Number: 503/735-4976 Questions? 503/286-0631 To:
Company:
Date: 9/13/04
Fax Number: ()
Per our discussion - 2 concerns
(1) Concrete patches are not all
Smooth & can be a trip hazard
•
D'Trench for line: tar is approx. Yo" below surface on majority
12" below surface on majority
Please Six wide



Corresion Protection Services, LLC

20435 S. Leland Rd. Oregon City Or, 97045 (503) 655-9488 FAX (503) 655-6150

OR CCB: 153233 | WA REG: Compa985RZ

Emerging Small Business #3440 | OAME Member | NFIB and BBB Member

Call Art Van Alstine or Roger Fernandez.

Fax Cover and Information Request	t
Date: 6/28/04 Fax# 503-735-4976 Phones#	Pages &
To Suida Brown Firm: Foss maritime Co, From: Art	Van Alstine:
Phone: 503-655-9488 Fax: 503-655-6150	Zaol. Com
Here is the information you request	<u>.</u>
Here is the information you request. Call me at 503-655-9488 If you have questions.	any
questiono. Hanks	•
Art Van Alstine	

Date: 6/25/2004

From: Art Van Alstine

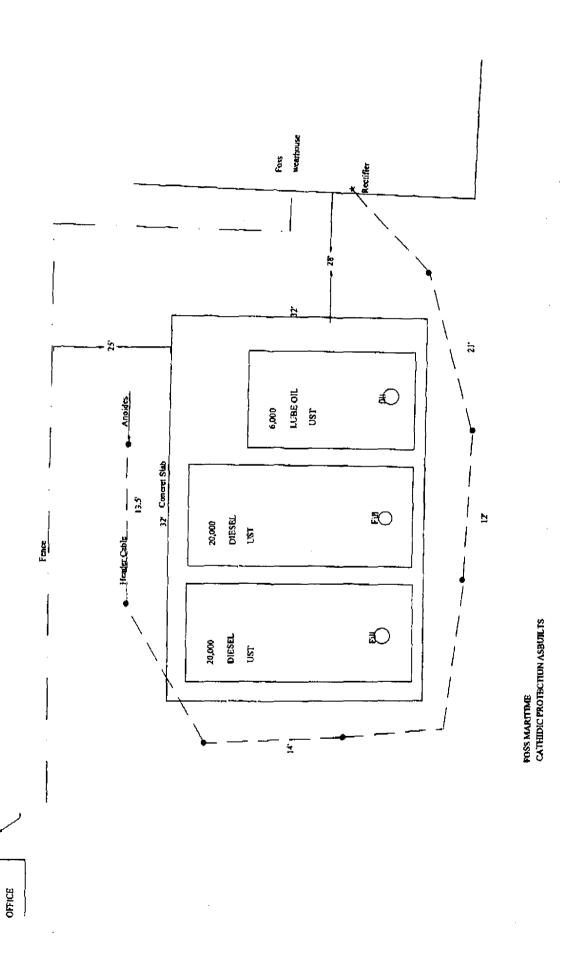
Bid Proposal:



$\underline{C_{orrosion}\,P_{rotection}S_{ervices,\,LLC}}$

20435 S. LELAND RD, OREGON CITY, OR 97045 (503) 655-9488 FAX (503) 655-6150 Call Art Van Alstine or Roger Fernandez

# 1007	Francing Small	Business # 3440 OAME Member 7	NEIR and RRR Member	٦
Account	: Foss Maritime Co.	Dustites 7 0440 Oztaria (riciasot 1	Project: UST- Cut 1	⊒ Header cable
	9030 N.W. St. Helens Rd.	Cell:	Address: Same	TODGET GOOD
-	: Portland, OR 97231	Phone: 503-978-6546	Cty/St/Zip:	
	: Linda Brown	Fax: 503-735-4976	Contact:	
Quantity		Item Description		
	Replace Header Cable for / buried an	odes to DEQ requirements, Reports &	lesting.	
	G	11.5		
	Saw cut 125 of asphalt and lay new I Jack hammer out concrete over the an			
<u></u>	Dack nammer out concrete over the an	oges.		
<u>'</u>	Re-splice the 7 annodes to the new an	ode bonder aphlo		
	Re-spince the 7 annoues to the new an	ode Header Cable.		· · ·
1	Seal the saw cut area and cement over	the anodes		
	Materials:	nie anoues.		
150	Feet of #8 - HMWPE Header Cable f	or direct hurial Stranded conner		·
I I	Splice kit: 82-A1 final splice kit on h			
6	Splice kits: 90-B1 for sealing splices of			
150	Feet of saw cut sealer.	on each anode.		
4	Bags of Redi-Mix			
2	Boxes of Black Pigment.		<u> </u>	
	Equipment Rental:			;
1	Concrete Jack Hammer			
1	Asphalt Saw Cutter.			
16	Hours Installation:		· · · · · · · · · · · · · · · · · · ·	
1	Final Testing and final reports required	for DEQ Compliance. Includes 30 day	& 3 day	
	notices for beginning repairs.			
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	Warranty: 2 years on workmanship and	materials.	§ \ 344	
				Contract Secretary
	·		MI, ECI	Fig. Hr.
		<u>-</u>		
				0 4074.00
	Thanks for the opportunity to submit the			\$ 4,974.70
	. I will forward with this proposal our rification for Design, Installation and I		Grand Total:	\$ 4,974.70
	our ontractors license. The DEQ likes in 60 day log for checking the rectifier fa	or tank owners to have all of the certifi	cattions for testing and repairs in	your me
ong with the	oo day log to: checking the rectifier it	or compitation.		



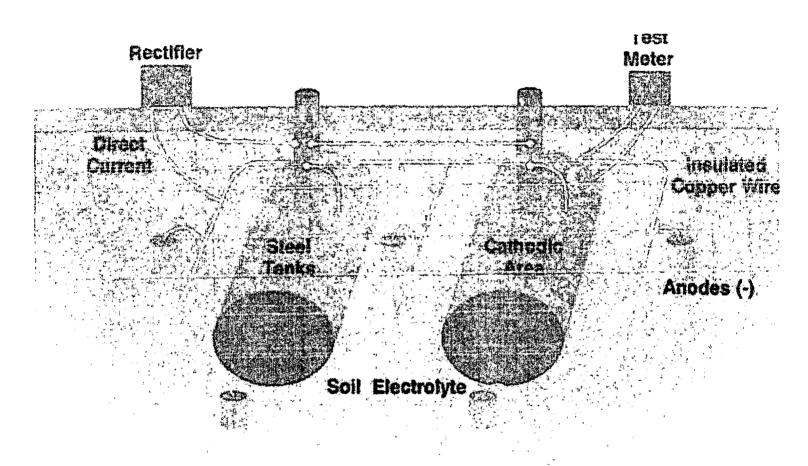
00014197

CATHODIC PROTECTION

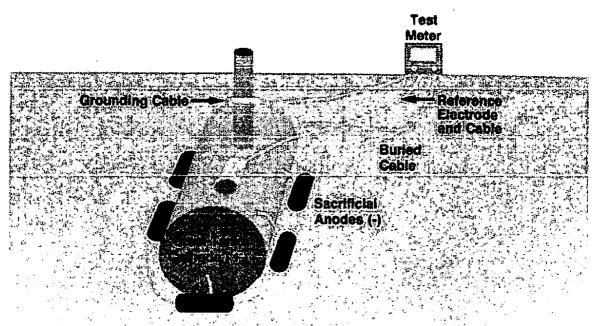
THIS SECTION SHOULD CONTAIN ALL OF THE INFORMATION PERTAINING TO THE INSTALLATION AND MAINTENANCE OF THE CATHODIC SYSTEM INCLUDING, BUT NOT LIMITED TO:

- INFORMATION AND WARRANTEES FOR STI-P3 TANKS
- PRE-TESTS AND ENGINEERING DRAWINGS FOR THE INSTALLATION OF EITHER A GALVANIC OR IMPRESSED CURRENT SYSTEM
- NECESSARY PERMITS AND CHECK-LISTS
- POST INSTALLATION TESTING AND RECORDS
- INFORMATION ON LININGS (IF DONE)
- TEST RESULTS AS REQUIRED BY RULE
- TEST STATION INFORMATION
- ANY OTHER PERTINENT DATA

Tested every 3 years by Livened Testing people current monitoring every Godays
Recommeded testing acycerty



Cathodic Protection Employing Impressed Current



Cathodic Protection
Typical Installation of Galvanic/Sacrificial Anode System



To:	Linda	From:	Jeff Pike	
Fext		Pages:	84	
Phones		Date:	1/12/2007	
Rec		CC:	Greg Toran Bob N	lascott
🖺 Urgei	nt 🗆 For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle
Facility I	D 7374			15-1
Foss Me	aritime. Sump sensor.			
	the out come of the tes It clear on the fax,	t performed on Jan 8 th 200	07. I can mail you th	ne photos if thay do not
Thanks				
Jeff		·		

January 12, 2007

To: Foss Maritime

RE: Functional test Incon sensor

Site; 9030 NW St Helens Road Portland, OR 97231. Facility ID: 7374

On January 8th 2007 Pike's Unlimited performed a field function test on an Incon sump float switch (INTSP-ULS). The test was Performed to show that the sump dose work with 30 weight motor oil. Mascott Equipment was on site to verify the test results

The Incon panel was photographed (Photograph One) prior to the test all lights indicated no alarms and the system was working normally.

Approximately three inches of Oil was Placed in a bucket and used for the test. The oil was obtained from Fosses dispenser to insure compatibility for the test.

The bucket was placed in the sump and the Incon sensor was dipped in to the oil (Photograph Two), Simulating a leak.

The Incon alarm panel was then checked. The system was in alarm indicating that a leak had been detected (Photograph Three).

When the program was checked the readout showed that the alarm was coming form the Incon sensor. The sensor was removed from the bucket and the alarm acknowledged. The audible and visual alarms

It is understood that the Incon sonor has not been certified by the manufacture for use with 30 weight oil. This is in part due to the financial cost. That would be incurred for the certification and the low return the company would receive. The sensor is rated for Diesel and other liquids. Which share many of the same Hydrocarbons as 30 weight Oil.

The results of the test show that the sensor doses react to 30 weight oil and dose provide an indication that a leak is occurring.

Although, this sensor dose not meet OAR standards. It is the best Leak detection method that we have found at this time.

Respectfully

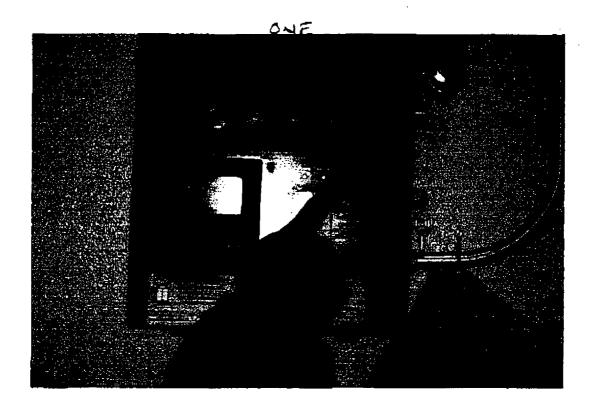
Jeff Pike

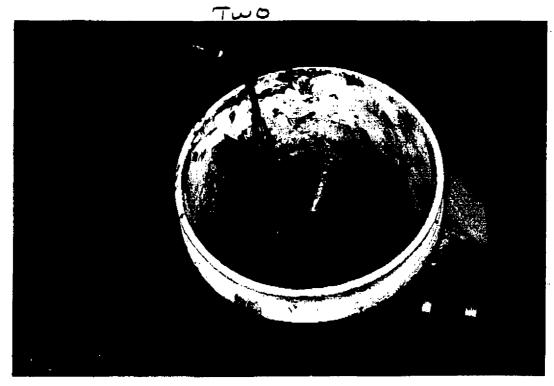
CC:

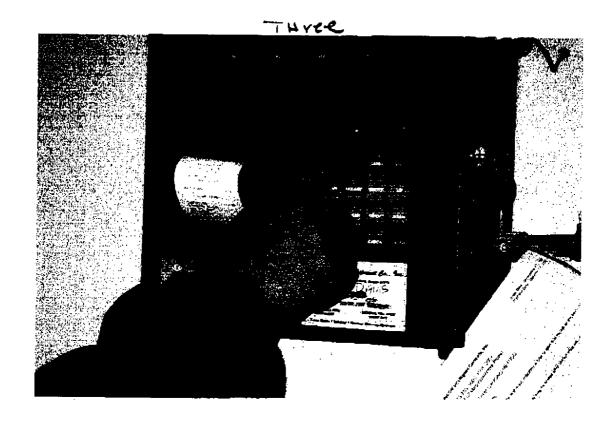
Linda Brown Foss Maritime

Greg Toran DEO

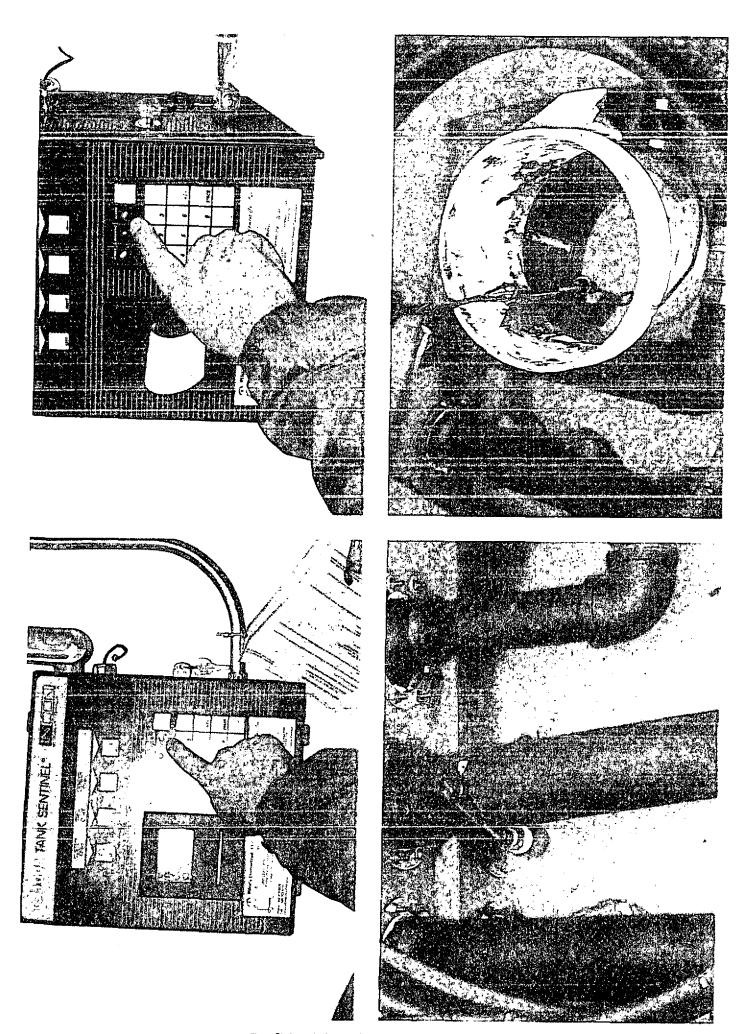
Bob/Adam Mascott Equipment











Confidential Business Information

Issue Date: September 11, 1 Revision Date: October 17, 2

INCON Intelligent Controls, Inc.

TS 750, 1000, 1001, 2001 (Incon LL2 Magnetostrictive Probe)

AUTOMATIC TANK GAUGING METHOD

Certification:

Leak rate of 0.2 gph with $P_D = 95.7\%$ and $P_{FA} = 4.3\%$.

Leak Threshold: 0.1 gph. A tank system should not be declared tight if the test result indicates a loss or gain that equals or exceeds this

threshold.

Applicability:

Gasoline, diesel, aviation fuel, fuel oil #4.

Other-liquids-with-known-coefficients of expansion and density may be tested after consultation with the manufacturer.

Tank Capacity: Maximum of 30,000 gallons.

Tanks less than 95% full may be tested.

Minimum product level required based on tank diameter as follows:

48" dia/min 12"; 64" dia/min 14"; 72"dia/min 15"; 96" dia/min 17.5"; ___126"dia/min.21.5"... For other diameters, see evaluation report.

Waiting Time: Minimum of 4 hours 9 minute between delivery and testing.

Minimum of 2 hours between dispensing and testing.

There must be no delivery during waiting time.

The length of the test is determined automatically based on quality of test data. Test Period

Average data collection time during the evaluation was 6 hours, 51 minutes.

Test data is acquired and recorded by system's computer.

Leak rate is calculated from data determined to be valid by statistical analysis.

There must be no dispensing or delivery during the test.

rature: Probe contains 5 thermistors to monitor product temperature. At least one thermistor must be submerged in product during testina.

Water Sensor: Must be used to detect water ingress.

Minimum detectable water level in the tank is 0,208 inches. Minimum detectable water level change is 0.011 inch.

Calibration:

Thermistors and probe must be checked and, if necessary, calibrated in accordance with manufacturer's instructions.

Comments:

This equipment was not evaluated using manifolded tanks.

Tests only the portion of the tank containing product.

As product level is lowered, the leak rate in a leaking tank decreases (due to lower head pressure). Consistent-testing-at-low levels could allow a leak to remain undetected. EPA leak detection regulations require testing of the portion of the tank system

which routinely contains product.

TS1000 and 1001 can support up to 4 tanks. TS2001 can support up to 8 tanks.

TS 750 can support up to 4 tanks, but does not provide fuel logistics, remote monitoring and other business management options available with TS 1000, 1001 and 2001.

INCON Intelligent Controls, Inc.	Evaluator: Ken Wilcox Associates
74 Industrial Park Rd.	Tel: (816) 443-2494
Saco, ME 04072	Date of Evaluation: 05/14/98, 08/21/02
Tel: (800) 872-3455	



SERVICE ORDER

PORTLAND 435 N.E. HANCOCK PORTLAND, OR 97212 PASCO, WAS	AVE. 653 99301 SEA	ATTLE 0 5TH PLACE SOUTH ATTLE, WA 98108			11714/
503-282-2587 509-543-2010	8 206	-763-7867		JOB SITE	
ACCOUNT NUMBER			ORDER DATE	JOB PHONE	86-063/
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SOLD TO			JOB NAME		
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		MODEL	SERIAL	NUMBER	
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SUSTOMER AUTHORIZED SIGNATURE	ENVIRONMENTAL FEE		\$14.50		
Link than	SALES TAX	OTAL	BUE		
	į T	OTAL AMOUNT	DUE		ţ

00014209



PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 288-9664 SEATTLE 6530 5TH Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006 TRI-CITIES 200 S. 20th Ave Pasco, WA 99301 (509) 543-2018 FAX (509) 543-2051

INVOICE NO.	134
PAGE	1
DATE	10/27/06

FOSS MARITIME
9030 NW SAINT HELENS ROAD
PORTLAND, OR 97231-1127

SAME
POSS MARITIME
9030 NW SAINT HELENS ROAD
PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER SHIP DATE SALE	S PERSON	TER	MS	TAX	CODE	DOC: NO:	WiH	FREIGHT		SHIP VIA
JEFF PIKE 10/27/06 A	(RBB)	NET 10T	Н	ORM	JLPOR	117152	01	BILL		W/C
ENFEB3157 BOOT, 5"7.75"/1" COMBO FLE	(A) 12/4-14 (A)	1	SHIPPED BAY		U/M EA	27.00			PER	EXTENSION 27.00
1. 25% RESTOCK FEE ON ANY RETURNED MERCHANDISE 2. NO RETURNS ACCEPTED WITHOUT PRIOR APPROVAL 3. THE CONDITIONS AS SET FORTH ON THE REVERSE SIDE	MERCHANDISE	MISCEL	LANEOUS	DISC	OUNT	TA	λX	FREIGH	Т	TOTAL DUE
HERON SHALL APPLY TO THIS SALE 4. 15 DAYS ALLOWED FOR CORE RETURN REFUNDS. XXX-XXX-XXXX FX	27.00	.00		.00		.00)	.00	7	27.00

PAST DUE ACCOUNTS SUBJECT TO 1 1/2% INTEREST CHARGE PER MONTH, 18% ANNUAL RATE



PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 288-9664

SEATTLE SEATTLE 6530 5TH Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006 TRI-CITIES 200 S. 20th Ave Pasco, WA 99301 (509) 543-2018 FAX (509) 543-2051

830 **FOSS MARITIME** 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

COP	Y

INVOICE NO.	134
PAGE	1
DATE	10/24/06

FOSS MARITIME 9030 NW ST HELENS ROAD SHIP PORTLAND, OR 97231

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SAL	ES PERSON		RMS	TA	CODE	þ	OC. NO.	V/H	FREIGHT		SHIP VIA	
LINDA	10/20/06	Α	(RBB)	NET 10	TH	ORM	IULPO)R 1	16406	01	BILL		SERVICE	
LINDA'S # 503 DIESEL NOT I ON INCON TS DATE INCORI A CALL TODA CHANGE DAT WEEKS AGO HER BACK LABOR LABOR, (TRIP CHARGE LABO CHANGED PF FOR CUSTON SJC. 10/20/06	B-978-6546 PASSING LE 1001 RECT - WOU Y, 10/10/06, E. CALLED : AND NOBOL On-Site/Shop R, (Travel & ROGRAMMIN MER'S RESP	AK TEST JLD LIKE TO 3 TO 4 DY CALLE 5 Service) Mileage) IG. WAIT	ED	ORDEREC 5 1	SHIPPED	BACK ORDER	EA EA		76.00 95.00		76.00 95.00	PER EA EA	38.00 95.00	, 1
	C												5000H	,U ————————————————————————————————————
1. 25% RESTOCK FEE ON ANY RETUR 2. NO RETURNS ACCEPTED WITHOUT 3. THE CONDITIONS AS SET FORTH O HERON SHALL APPLY TO THIS SAL	NED MERCHANDISE PRIOR APPROVAL THE REVERSE SII	DE	MERCHANDI	SE MISCE	LLANEOUS	DIS	COUNT	Г	TAX		FREIGH	IT	TOTAL DUE	1
4. 15 DAYS ALLOWED FOR CORE RET	ŪRN REFUNDS.		133.00	.0	0	.0	0		.00		.00		133.00	ĺ

XXX-XXX-XXXX FX

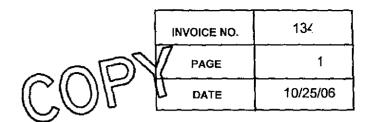
00014211



PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 288-9664

SEATTLE 6530 5TH Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006 TRI-CITIES 200 S. 20th Ave Pasco, WA 99301 (509) 543-2018 FAX (509) 543-2051

830 **FOSS MARITIME** 9030 NW SAINT HELENS ROAD SOLD PORTLAND, OR 97231-1127



SAME FOSS MARITIME SHIP TO 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SALE	S PERSON	TERMS			TAX	CODI	E	DOC: NO.	WiH	FREIGHT	SHIPİVIA	
523683	10/25/06	Α	(RBB)	NET 10TH			ORMULPOR 114516 01			BILL	W/C BY JEFF			
OITEM	DESCRIF	TION		ORDERED	SHIPPED	BACI	ORDER	U/M		PRIĆE		, cost ∴ ∖	PER	EXTENSION
INTSP-ULS SENSOF IN87761 CABLE, BE LINE 2 ADDED 10/25/06	R, SUMP FLO ELDEN 22 G) BY JEFF PI	A./SHIEL	CH DED	130	1 130			EA FT		192.00 .58		192.00 .58	EA FT	192.00 75.40
	CO	PM)										(2000
1. 25% RESTOCK FEE ON ANY RETURN 2. NO RETURNS ACCEPTED WITHOUT 3. THE CONDITIONS AS SET FORTH OF HERON SHALL APPLY TO THIS SALI	NED MERCHANDISE PRIOR APPROVAL N THE REVERSE SI	DE	MERCHANDIS	E MISCEI	LANEOUS	3	DISC	OUN	IT	TA	ıx	FREIGH	IT	TOTAL DUE
HERON SHALL APPLY TO THIS SALI 4. 15 DAYS ALLOWED FOR CORE RETI XXX-XXX-XXXX FX	E URN REFUNDS.		267.40	.00)	+	.00)		.00	 	.00		267.40

^^^^**^**

00014212

PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 288-9664 SEATTLE 6530 5TH Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006 TRI-CITIES 200 S. 20th Ave Pasco, WA 99301 (509) 543-2018 FAX (509) 543-2051

INVOICE NO.	134
PAGE	1
DATE	10/31/06

830 FOSS MARITIME 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127 SAME
FOSS MARITIME
9030 NW SAINT HELENS ROAD
PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SALI	ES PERSON	iệ iể lệ ŢE	RMS G∗	. ₹TAX	CODE	DOC. NO.	W/H	FREIGHT		SHIP VIA
LINDA	10/27/06	Α	(RBB)	NET 10	TH	ORM	ULPC	DR 117141	01	BILL		SERVICE
CONNECT SEN PIKE) TO TANK SITE 503-286-0	(MONITOR 631 n-Site/Shop R, (Travel & M us Materials	Service) Mileage) Used & TESTE		1.0 1 1	1.0 1 1	.0 0 0	EA EA EA	76.00 95.00 14.50		76.00 95.00 14.50	PER EA EA EA	76.00 95.00 14.50
L 1. 25% RESTOCK FEE ON ANY RETURN 2. NO RETURNS ACCEPTED WITHOUT P 3. THE CONDITIONS AS SET FORTH ON	THE REVERSE SID	E	MERCHANDISE	MISCEL	LANEOUS	DIS	COUNT	T /	X	FREIGH	п	TOTAL DUE
HERON SHALL APPLY TO THIS SALE 4. 15 DAYS ALLOWED FOR CORE RETUI	RN REFUNDS.		185.50	.00)	.00)	.00	 .	.00		185.50

XXX-XXX-XXXX FX

PAST DUE ACCOUNTS SUBJECT TO 1 1/2% INTEREST CHARGE PER MONTH, 18% ANNUAL RATE



ELECTRICAL CONTRACTORS

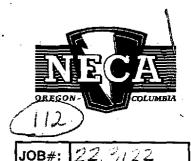
TOTAL

Hours

Labor

Mailing Address P.O. Box 15009 Portland, OR 97293-5009

Phone: 503-233-8801 Fax: 503-872-8290 CCB#: 166



				13			JOB#:	22.	3122
NAME	loss Mari	time					DATE	10.	25.06
ADDRESS "	9030 NW S	aint He	lerrs Rd		Palla	17231	PHONE	103.a	286.D631
JOB NAME	·	·		<u> </u>		· · · · · · · · · · · · · · · · · · ·	PHONE	·	·
JOB ADDRESS				<u>, </u>			PHONE		
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Jeff Dike	- 1-503.	302.911					D \$	P	THE
Jeff Pike		302.914	14 F	TURZ	Hool		PE	R	Tatt.
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Material

Approval Date

Other

Mileage

Sighature

Permit

Taxes

Total Cost

TICE ELECTRIC COMPANY 5405 N. Lagoon Ave - Portland - OR - 97217-7637 - 503/233-8801

Invoice Date 10-31-2006 Invoice No. 223122 Job No. 22.3122

Project Manager Arno

INVOICE

To:

Foss Maritime 9030 NW Saint Helens Road Portland, OR 97231-1127 112

Job:

Foss Maritime 9030 NW Saint Helens Road Portland, OR 97231

Description

Total

Service call - 10/26/2006

Installed Customer provided low voltage cable from sump (outside) to inside office - service loop both ends for future hook up.

Labor

Material

COPY

278.25

24.04

REC'D NOV - 6 2006



Amount Billed

\$302.29

DATE DUE 11-30-2006

Total Amount Due

\$302.29

Thank you for your business.



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

Franklin Fueling Systems/ INCON Saco, Maine, USA

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001: 2000

The Quality Management System is applicable to:

Design, Development and Manufacture of Measurement Devices, Instruments, and Related Software for Environmental Monitoring, Positions Monitoring, Inventory Control, Liquid Level/Flow Measurement for Oil/Petroleum, Power Reliability, Power Utility and Other General Industrial Market Use.

Approval

Certificate No: UQA 4000068

Original Approval:

May 16, 2005

Current Certificate:

May 16, 2005

Certificate Expiry:

May 16, 2008

Issued by: LRQA, Inc. Houston



This document is subject to the provision on the reverse
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQ/

FRSS MARITIMS Mara wu st ustens ro P. O. BOX 83018 -PORTLAND OREGON 9723: 1-503-286-0631

ดุรีวดา/2ต่ดอ

2:59

LEAK TEST REPORT

TANK 3 5260.8 GAL

30 WT DIL

LEAK TEST 8.200 GPH LEAK THRESHOLD 0.100 GPH COMPIDENCE LEVEL 95.02 TEST STARTED 23:59 TEST STAPTED 02/29/2004 1987 DELIVERY 1:/06/2003 GROSS CAPACITY 29-3% 1833.9 GA REGIN GROSS 1839.7 GAL BEGIN WET 31.745 JW BEGIN LEVEL 51,955 F REGIN TEMP BEGIN WATER 0.0 GAL 0.918 IN SECTH WATER 2:58 THO DATE 03/01/2004 1832.9 GAL END GROSS 1839.6 GAL 31.744 IN SMD MET END LEVEL END TEMP 51.967 F END MATER A A GAL 0.017 IN END WATER

HOURLY DATA

DEG F GAL TIME 51.958 1839.67 51.959 1839.67 9:58 1:58 51.967 1839.64 2:58

SLAPS -0,006 GAL/HR SLOPE LOW -0.007 GALVER SLOPE HIGH -9.006 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK PATE

FOSS MARITIME 9030 NW ST HELENS RD 2. O. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

9379172994

7:59

LEAK TEST REPORT

TANK 2

20032.7 GAL

DIESEL

LEAK TERT 0.200 GPH LEAK THRESHOLD 0.100 GPH COMPIDENCE LEVEL 95.0% TEST STARTED TEST STARTED 02/29/2004 LAST DELIVERY 5:09 LAST DELIVERY 02/28/2004 GROSS CAPACITY 22.2% BEGIN GROSS 4444.1 GAL BEGIN HET 4460.5 GAL BEGIN LEVEL 32,551 (N SEGIN TEMP 51.887 F 0.0 GAL 0.000 IN 7:58 BEGIN WATER SEGIN WATER END TIME END DATE 93/91/2004 END GROSS 4444,5 GAL END NET 4460.8 GAL 32.553 IN END LEUF! END TEMP 51.943 F END WATER 0.0 GA:--END WATER 9.000 IN

HOURLY DATA

TIME DEG F GAL 0:58 51.893 10381.40 1:58 51.903 10381.32 2:59 51.911 10381.41 3:58 51,917 10381.30 4:58 51.922 10381.40 5:58 51.930 10381.29 6:58 51.935 10381.60 7:58 51,943 10381.80

SLOPE 0.035 GALZHR SLOPE LOW 0.034 GAL/HR
SLOPE HIGH 0.037 GAL/HR
TEST RESULT PASSED
SLOPE EDUALS CALCULATED LEAK RATE

46/ 5" PETERS RD 7, 30% 83818 9kn 08500k 9723. -787-286-8631

କ୍ରେଟ ବ୍ୟନ୍ତମଞ୍ଚଳ କ୍ରୟତ ଧହାରେ ଅଟି କ୍ରେଟ 9, 0, 30% 93018 PORTLAND OREGON 9723 1-593-286-8631

GRZ-01/2004 7:59

TEAK FEET REPORT

TANK : 28032.7 0AL

)][95

LEAK TEST 9.200 GPH LEAK THRESHOLD 0.100 GPH COMPIDENCE LEVEL CONFICUENCE COURS 90.45 TEST STARTED 22/29/2004 TEST STARTED 92/29/2004 LAST DELIVERY 5:09 LAST DELIVERY 07/28/2004 GROSS CAPACITY 29.4%
DEGIN GROSS 5898.1 GAL BEGIN GROSS REGIN HET 5920.8 GAL 39.928 IN BEGIN LEVEL 51,532 5 BEGIN TEMP 6,8 DA. BEGIN WATER BEGIN WATER END TIME 93/01/2004 5898.5 GAL END GROSS 5921.0 GAL THO HET 79,929 IN 51.581 P 8,8 GAL FND LEUFL TEMP END WATER 0.990 IN END WATER

HOURLY DATA

DEG F GAL TIME 51.545 10381.49 51.550 10381.32 ø:58 1:58 51,550 10381-41 2:58 51.558 10381.30 **3:5**8 51,563 10381.40 4:58 51.568 10381.29 51.572 10381.60 5:58 6:58 51.581 10381.80 7:58

0.035 SALZHR SLOPE SLOPE LOW 9.934 GAL/HR SLOPE HIGH 0.037 GAL/HR TEST RESULT AASSED SLOPE EQUALS CALCILLATED LEAK RATE

```
FISS MARITIME
9670 NO ST HTLENS RD
2, 3, 30% 83018
 PORTLAND DREADN 9723:
        1-593-286-9631
07/27/2004
                         10:17
      LIAK TEST REPORT
                  20632.7 68
             DIESTL
 CAY TEST 0,200 GSH
TAY TYRESHOLD 0.100 GSH
AROSS CAPACITY 29.47
REGIN GROSS 5898, DA.
PERIN DEUEL
PERIN DEUEL
PERIN DEUEL
                    5920.8 GAL
                      39,928 14
রল্যান সহ্সাচ
                      51.532 F
8.8 GAL
PEGIN WATER
SPETH WATER
FUN TIME
                       0.000 IN
                           7:58
TURE SATE
                   93/81/2004
5898.5 GA:
มุษก กลกุกก
(*) จะก
                    5921.8 GAL
39.929 In
51.581 F
    - TUST
   100
\widetilde{g}^{m} \in \mathbb{C}^{n} \times \mathbb{C}^{n}
END WHITE
               --- 01000 IN
        HOURLY DATA
~- ~:
              DEG F GAL
             51.545 PSP(.46
             51,550 19381.32
  - 50
             51.550 1030 .2:
51.558 10381.30
 2150
 marke
 c\in \mathbb{N}\mathbb{N}
             50.56% 18%8° AR
            51.568 19381.29
51.572 )8381.68
51.581 18381.80
 5 C
 6:50
  7:56
9.395 88.248
SLDPS LOW 8.834 38.248
SLDPS HIGH 8.837 98.248
PAGEST
TIST RISULF ————PASSED
                  20032.7 GAL
             DIESEL
LEAK TEST
                  0.200 APH
 EAK THRESHOLD 0.100 GPH
COMPIDENCE LEVEL
                           95. 9%
 TEST STARTED
                          23:59
JEST STARTED 02/29/2004
LAST DECIMERY 5:09
LAST DELIVERY 02/28/2004
09088 08980174 22,2%
870% 08088 4444 09
```

```
990010 080
30.550 7k
51.887 F
5.08 680
         inga ikab
Bila Tibel
Anda Anda
       inara garta
    SEGIN WATER
END TIME
                                                                                   0.880°IN
                                                                                           7:58
                                                                           03/01/2004
4444-5 GAL
      ENO DATE
     EMD GROSS
      END NET
                                                                             4460.8 GAL
     END LEVE:
                                                                                32.553 IN
     LAD LEAD
LAD LEAD
                                                                                      51.943 F
                                                                                31.5+↓
0.0 0A°
      NO GATER
                                                                                   0.000 in 
                                   علماله المالية
         . .
                                                         479 - RAL
                                                  5,993 -030 <u>40</u>
51,993 -038 32
51,911 -1030 -
51,917 -330 -10
          (2.0037)7.4
         50
         ୍ୟର୍
           550
                                                 51.97 2381.46
51.977 2381.29
51.035 3381.66
          , PE (.T.
           50
         f_{\alpha}\circ \mathfrak{M} \subset
          74.48
                                                  94,547 PTA1,98
   0.000 8,630 .0 0.0
0.000 14 8,837 00 049
0.000 14 8,837 00 049
0.000 065881 04588
0.000 07588
            19K 7A
                                                                            6269.8 GAL
                                                                                Grand State
                              musequal visiting gov
                2. 3.36.1. XX 2.9.9
7.7 3.50.1. XX 3.1. XX 3.1
     7147 | 7147 | 7147 | 7147 | 7147 | 7147 | 7147 | 7147 | 7147 | 7147
       LAST DELIVERY 11/06/2063
38098 CAPACITY 29,3%
    REGIN GROSS
REGIN NET
POSTA LIVEL
TIGIN TEMP
PICES WATER
                                                                 1833.9 GAL
                                                                            1839.7 GAL
31 745 TA
11.955 F
     SECTO WATER
END TIME
TYD DATE
                                                                                ଞାଜରେ ଅନ
ଅଟନ
                                                                            9370172004
    TWO VET
                                                                            1832,9 GA
                                                                            1839.6 AA.
TVŠ (ŠŲF)
(40 TTMP
(740 WATED
                                                                                      51,967 =
                                                                                   ด.0 6A.
ช.017 I∿
      हु ५०) नेतृष्ट राष्ट्र
                                  -9,60 v 19,7%
                                                      DEG F GAN
51.958 1839.67
51.959 1839.67
51.967 1839.64
        0:5B
         1:58
2:50
   SLOPE -0.806 SALZHR
SLOPE LOW -0.807 GALZHR
SLOPE YIGA -0.806 GALZHR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
      FAK PATE
```

GOSS MARITIME BOSS MARITIME ->. 0. 30X 83018 PORTLAND OREGON 972% 1-503-286-0631

04/01/2004

LEAK TEST REPORT

TANK : 29032.7 GAL

89.944 IN

55.309 F

0.0 GAL

9.900 IN

OTESEL

LEAK TEST 0,296 6PH SAK THRESHOLD 9.190 GPH COMPIDENCE LEVEL 95.0% TEST STARTED 23:59 TEST STAPTED 03/31/2004 LAST DELIVERY 19:22 LAST DELIVERY 03/39/2004 GROSS CAPACITY 81.1% BEGIN GROSS 16244,8 BAL BEGIN NET 16278.7 GAL BEGIN LEVEL 89.941 IN BEGIN TEMP 55.290 F REGIN WATER 0.8 GAL BEGIN WATER 0.000 IN END TOYE 34/01/2004 540 09099 16244,5 GAL END NET 16279,1 GAL END LEVEL

· HOURLY DATA

END TEMP

END WATER

END WATER

TIME DEG F GAL 55, 294 29765, 43 55, 296 29765, 46 មុះ 58 1:58 2:58 55, 298 29765, 47 55.298 29765.33 3:58 55.301 29765.27 4:58 55.302 29765.30 55.305 29766.16 5:58 6:58 55.309 29766.10 7:58

SLOPE 0.075 GAL/HR SLOPE LOW 0.072 GAL/HR SLOPE HIGH 0.078 GALZHR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK SATE ____-

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-9631

9479172994

7:59

LEAK TEST REPORT

TANK 2 20032.7 GAL

DIESEL.

LEAK TEST 0,200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.8% TEST STARTED TEST STARTED. 23:59 TEST STARTED 93/31/2004 LAST DE Confidential Business Information

1,389 5461	16279.1 GAL
END LEVEL	89,944 IN
END TEMP	55.309 F
END WATER	′ 0.0 GAL
SHO WATER	0.000 IN

HOURLY DATA

TIME	986 F	GAL
0:52	55, 294	29765,43
1:58	55, 296	29765.46
2:58	55, 298	29765,47
J:58	55, 298	29765.33
4158	55.301	29765, 27
5:58	55.302	29765.30
6:58	55.395	29766, 16
7:58	55.309	29766.10

SLOPE 0,075 GAL/HR
SLOPE LOW 0,072 GAL/HR
SLOPE HIGH 0,078 GAL/HR
TEST PESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

-088 MARITIME -9030 NW ST HELENS RD -9. 0. 80% 83018 -9081 AND 08580N 97231 1-503-286-0631

94/91/2994

7:59

LEAK TEST REPORT

TANK 2

20032.7 GAL

DIESEL

LEAK TEST 6,200 GPH LEAK THRESHOLD 9,100 GPH COMPTOFNCE LEVEL TEST STARTED TEST STAPTED 03/31/2004 LAST DELI LAST DELIVERY 12.2. GROSS CAPACITY 67.2.2. BEGIN BROSS 13458.9 GAL REGIN MET 13486.7 GAL 75.762 IN 55.295 F LAST DELIVERY 10:22 LAST DELIVERY 03/30/2004 P.B GAL BEGIN WATER 0.000 IN 7:58 BEGIN WATER END TIME 94/61/2004 END DATE END GROSS END NET 13458.4 GAL 13487.9 GAL END LEUE! 75.764 IN 55.332 F END TEMP END WATER 0.0 GAL END WATER 9.000 IN

HOURLY DATA

I I ME	OEG F BAL
0:58	55.301 29765.43
1:58	55.305 29765.46
2:58	55,309 29765,47
J:58	55.314 29765.33
415S	55.319 29765.27
5:58	55.323 2 9765.30
6*58	55.327 29766.16
7:58	55.332 29766.10

SLOPE 9.075 GAL/HR
SLOPE LOW 9.072 GAL/HR
SLOPE HIGH 0.078 GAL/HR
TEST RESULT PASSED
SLOPE FOUALS CALCULATED
LEAK RATE

FOSS MARITIME 9030 NW ST MELENS RD 9. 0. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

05/01/2004 ---- 3:09

LEAK TEST REPORT

TANK 3 6260.8 GAL

30 WT CIL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.190 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 23:59 TEST STARTED 04/J0/2004 LAST DELIVERY 8:09 LAST DELIVERY 04/07/2004 GROSS CAPACITY 61.9% BEGIN GROSS, 3876.1 GAL BEGIN HET 3872.8 GAL SEGIN LEVEL 56.440 IN BEGIN TEMP 61.856 F SEGIN WATER 9.0 GAL 0.022 IN BEGIN WATER END TIME 3:98 EMD DATE 05/01/2004 3876.2 GAL 3872.9 GAL END GROSS END MET END LEVEL END TEMP 56,441 IN 61.862 F END WATER 0.0 GAL 0.022 IN END WATER

HOURLY DATA

TIME DEG F GAL 0:58 61.858 3872.90 1:59 61.860 3872.83 2:58 61.862 3872.94

SLOPE 0.012 GAL/HR SLOPE LOW 0.011 GAL/HR SLOPE HIGH 0.013 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE SLOPE 0.012 bnu ... SLOPE LOW 0.011 GALZHR SLOPE HIGH 0.013 GALZHR 1 TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RO P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

95/01/2004

7159

LEAK TEST REPORT

TANK I

20032.7 GAL

DIESEL

LEAK TEST 9.200 GPH LEAK THRESHOLD 0.100 SPH CONFIDENCE LEVEL 95.0% TEST STARTED 94/30/2004 TEST STARTED 94/30/2004 TEST STARIED 20121 LAST DELIVERY 20121 LAST DELIVERY-04/26/2004 COMPACTTY 24-6/ LAST DELIVERY-A
GROSS CAPACITY
SEGIN GROSS A
BEGIN NET A
SEGIN LEVEL
BEGIN TEMP 4926.5 GAL 4924.8 GAL 35.046 IN 60.75¢ F SEGIN WATER 0.0 GAL BEGIN WATER END TIME END DATE 9.009 IN 7:58 85/91/2884 4926.5 GAL END GROSS END HET 4924.9 GAL END LEVEL END TEMP 35.046 IN 60.698 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

DEG F GAL 60.744 8385.78 60.734 8388.82 60.726 8388.91 60.717 8388.96 60.710 8387.96 60.708 8388.84 TIME 9:58 1:58 2:58 3:58 4:58 5:58 6:58 69,696 8388,06 60.690 8389,01

SLOPE Ø.846 GAL/HR SLOPE LOW Ø.835 GAL/HR SLOPE HIGH Ø.857 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9636 NW ST HELENS RD P. O. 90X 83018 PORTLAND OREGON 97231 1-503-286-9631

05/01/2004

8:00

LEAK TEST REPORT

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SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9036 NW ST HELENS RD P. O. SOX 83018 PORTLAND OREGON 97231 1-503-286-0631

05/01/2004

8:00

LEAK TEST REPORT

TANK 2

20032.7 GAL

DIESEL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 23:59 TEST STARTED 04/30/2004 LAST DELIVERY 20:21 LAST DELIVERY 04/26/2004 GROSS CAPACITY 17.3% BEGIN GROSS 3466.9 GAL 3464.0 GAL 27.293 IN SEGIN NET BEGIN LEVEL BEGIN TEMP 61.854 F ซ์.ศ GAL SEGIN WATER 0.000 IN BEGIN WATER END TIME END DATE 95/01/2004 3466.8 8AL END GROSS 3464.1 GAL 27.293 IN END NET END LEVEL END TEMP 61.740 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

TIME DEG F GAL
0:58 61.836 8388.76
1:59 61.820 8387.76
2:58 61.895 8387.84
3:59 61.791 8387.94
4:58 61.777 8388.95
5:58 61.764 8388.90
6:58 61.751 8388.94
7:58 61.740 8389.83

SLOPE Ø.046 GAL/HR SLOPE LOW Ø.035 GAL/HR SLOPE HIGH Ø.057 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9030 AW ST HELENS RD P. O. BOX 83018 FOSS MARITIME PORTLAND OREGON 97231 9030 AW ST HELENS RD 1-503-286-0631 P. O. BOX 93018 PORTLAND OREGON 9723: 96/91/2964 1-503-286-0631 7:59 LEAK TEST REPORT 06/01/2004 TANK 20032.7 GAL LEAK TEST REPORT DIESEL TAMK 3 LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 23:59 LEAK TEST 0.290 GPH LEAK THRESHOLD 0.100 GPH TEST STARTED 05/31/2004 COMPTDENCE LEVEL 95.0% TEST STARTED 23:59 LAST DELIVERY 14:09 LAST DELIVERY 05/29/2004 TEST STARTED 05/31/2004 LAST DELIVERY 8:09 GROSS CAPACITY 38.9% 3891W GROSS 7797.2 GAL BEGIN NET 7774.5 GAL BEGIN GROSS BEGIN NET BEGIN LEVEL BEGIN TEMP LAST DELIVERY 04/07/2004 GROSS CAPACITY 49.9% BEGIN GROSS 3122.8 GAL 49.046 IN BEGIN NET BEGIN LEVEL 63.59g r BEGIN WATER 0.0 GAL 0.000 IN BEGIN WATER BEGIN TEMP END TIME END DATE 7:58 SEGIN WATER 9679172<u>0</u>94 BEGIN WATER END TIME END DATE 7786.4 GAL 7773.7 GAL END GROSS END MET END LEVEL END GROSS END MET 49.842 IN 63.604 F END TEMP SND WATER 0.0 GAL END LEVEL END WATER 0.000 th END TEMP END WATER HOURLY DATA END WATER TIME DEG F GAL HOURLY DATA 9:58 63.592 12270.92 63.593 12271.98 459 TIME 2:58 63.595 12268.95 63.596 12272.18 9:58 3:58 1:58 63.598 12271.11 4:58 2:58 5:58 6:58 63.600 12271.07 63.602 12271.34 SLOPE LOW 7:58 63.604 12271.52 SLOPE HIGH BOOK GALTER SLOPE 0.880 GAL/HR TEST RESULT SLOPE LOW 0.062 GAL/HR SLOPE WIGH 0.092 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE PASSED SLOPE EQUALS (CALCULATED LEAK RATE FOSS MARITIME 9030 NW ST HELENS RO ි. 0. 80% 83**0**18 PORTLAND OREGON 97231 1-503-286-0631 96/91/2004 8:00

TANK 2

LEAK TEST REPORT

20032.7 GAL

3:09

6260.8 GAL

3116.6 GAL

47,410 IN

64.368 F

0.0 GAL 0.023 IN 3:08

06/01/2004

3122.8 GAL 3116.6 GAL

47.419 IN 64.371 F

9.0 GAL

0.023 IN

DEG F GAL

64.369 3116.60 64.370 3116.64 64.371 3116.66

0,000 GAL/HR

0.007 <u>GAL</u>/HR

OFESEL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH COMFIDENCE LEVEL 95.0% TEST STARTED 05/31/2004
LAST DELIVERY 05/29/2004
CROSS CAPACITY 22.5% 4505.8 GAL 4497.6 GAL 32.873 IN BEGIM GROSS SEGIM MET BEGIN LEVEL BEGIN TEMP BEGIN WATER 64.022 F 0.0 GAL 0.000 IN 7:58 BEGIN WATER END TIME SHO DATE 06/01/2004 END GROSS END MET 4506.0 GAL 4497.9 GAL END LEVEL 32.874 [k 63.993 F 0.0 GAL END WATER END WATER 9.000 IN

HOURLY DATA

TIME	DEG A GAL
0:58	64.018 12270,02
1:59	64.013 12271.98
2:58	64.010 12268.95
J:58	64.006 12272.18
4:58	64.003 12271.11
5:58	63.999 12271.07
6 : 58	63.996 12271.34
7:58	- 63.9 9 3-12271.52

SLOPE 0,080 GAL/HR
SLOPE LOW 0.062 GAL/HR
SLOPE HIGH 0.098 GAL/AR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

F088 MARITIME 19838 NW ST HELENS RD P. O. BOX 83818 PORTLAND OREGON 97231 1-503-286-063.

05/31/2004

23:59

TANK INVENTORY DÉTAIL

TANK 1

TANK NO. 1	20032.7 GAL
#ANTEQLD	MAN I
PRODUCT	DIESEL
GROSS -	7787.i GAL
NET	7774.4 GAL
PROD LEVEL	49.046 IN
GROSS CAPACI	TY 38.9%
ULLAGE	11243.9 GAL
TEMPERATURE	63.590 F
WATER LEVEL	9.000 IN
一はATFR一は色に円が削っ	Й.Я GAL

TANK 2

TANK NO. 2 20032.7 GAL
MANIFOLD MAN 1
PRODUCT DIESEL
GROSS 4595.8 GAL
NET 4497.5 GAL
PROD LEVEL 32.873 IN
GROSS CAPACITY 22.5%
ULLAGE 14525.3 GAL
TEMPERATURE 64.022 F
WATER LEVEL 9.000 IN
WATER VOLUME 0.0 GAL

TANK 3

TANK NO. 3 6260.8 GAL
PRODUCT 30 WT OIL
GROSS 3122.8 GAL
NET 3118.6 GAL
PROD LEVEL 47.410 IN
GROSS CAPACITY 49.9X
ULLAGE 2824.9 GAL
TEMPERATURE 64.368 F
WATER LEVEL 9.023 IN
WATER VOLUME 9.0 GAL

```
FOSS MARITIME
9030 NW ST HENENS RO
     ි. 0. 30X 33018
   PORTLAND OREGON 9723:
       1-503-286-0631
 87/91/2994.
                       2:59
                                             FOSS MARITIME
                                         ST HELENS BO
     LIAK TEST REPORT
                                            °. 0. 30x 83018
                                        PORTLAND OREGON 9727
 TANK T
                6269.8 GAL
                                             30 WT OIL
                                       97/9:/2904
                                                            4:48
 LEAK TEST
                 9,290 GPP
                                       -SAK TEST REPORT
 SAK TYRESHOLD 0.100 GPH
 CONFIDENCE LEVEL
                     95.6%
                                      TANK -
 TEST STARTED
                     23:59
                                                    20032.7 GAL
 TEST STAPTED 04/30/2004
 LAST DELIVERY - - 8:09
 LAST DELIVERY 04/07/2004
                                      TEST PESUET
 GROSS CAPACITY
                                                       ARORTED
                  31.0%
 BEGIN GROSS
               1939.2 GAL
1931.3 GAL
 REGIN VET
BEGIN LEVEL
BEGIN TEMP
                33.080 IN
                                          FOSS MARITIME
                 68.984 F
                                     9030 NU ST HELENS RD
9081 AND OREGON 97231
BEGIN WATER
                  9.0 GAL
SEGIN WATER
                  0.022 IN
                      2:58
                                          1-593-286-9631
EMD DATE
               97/91/2004
END GROSS
               1939.2 GAL
                                    07/91/299c
END NET
               1931.3 GAL
END LEVEL
                33.080 IN
                                        LEAK TEST REPORT
END TEMP
                 69,912 F
END WATER
                  0.0 GAL
END WATER
                                                  20032,7 GAL
                 0.022 IN
      HOURLY DATA
                                            . Diesel
                                   TEST RESULT
TIME
           DEG F GAL
                                                     ARORTED
 0:58
           68,994 1931.30
 1:58
          69.003 1931.31
 2:58
          69.812 1931.32
SLOPE
            0.004 GAL_HR
SLOPE LOW
            9.003 DAL HR
9.005 GAL HR
PASSED
SLOPE HIGH
TEST PESULT
SLOPE EQUALS CALCULATED
LEAK RATE
```

FOSS MARITIME 90% NV ST HELENS RO P. 0.760% 83018 PORTLAND OREGON 97231 1-503-286-0631

96/39/2004

23:59

MANK INVENTORY DETAIL

TANK 1

20032.7 GAL TANK 씨). <u>:</u> MAN7⊏710 MAN 1 PRODUCT . DIESEL 7326.4 GAL 6<u>80</u>55 . NET 7292.9 GAL PROD LEVEL 46,854 IN GROSS CAPACITY 36.6% 1170A.S.GAL 70.073 F ULLAGE TEMPERATURE WATER (EUE) ର୍,ଜ୍ଜର TN WATER VOLUME 0.0 GAL

TANK 2

TANK 40. 2 29932.7 GAL MANI⊆01.0 MAN 1 DIESEL PRODUCT 6921.5 GAL 68059 NFT . 6889.1 GAL 44,914 IN PROD LEVEL GROSS CAPACITY ULLAST 12 34.6% .12109.5 GAL 70.299 F TEMPERATURE WATER LEVEL 0.000.IN ଅ.ଡ଼ିନେ<u>ଲ</u> WATER VOLUME

TANK 3

TANK MO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS NET 1939.2 GAL 1931,3 GAL PROD LEVEL GROSS CAPACITY 135.980 IN 31.0% ULLAGE 4008.5 GAL TEMPERATURE 68.984 F 0.022 IN WATER LEVEL WATER . VOLUME 0.0 GAL

```
SOSS MARITIME
 9030 NW ST HELENS RD
                                    P |
    ∍. g. 30x 83018
PORTLAND OREGON 97231
      1-503-286-0631
                         3:08
98/01/2004
      MAK TEST REPORT
                  6260.8 BAL
TANK 3
         38 WT OIL
                   0.200 GP<sup>U</sup>
LEAK TEST 6.200 GPH
LEAK THRESHOLD 6.100 GPH
CONFIDENCE LEVEL 95.0%
TEST STARTED 23:59
TEST STARTED 67/31/2004
LAST DELIVERY 67/28/2004
LAST DELIVERY 67/28/2004
                         90.8%
 GROSS SAPACITY
 BEGIN GROSS
                   5685,9 GAL
                   5627.8 GAL
 BEGIN WET
 BEGIN TEMP
                    80,985 IN
                      82.404 F
                      Й.: GAL
 BEGIN WATER
                      0.038 IN
 BEGIN WATER
                           3:08
 END DATE
                    08/01/2004
                    5685.8 GAL
 END GROSS
                    5627.9 GAL
80.984 IN
  END NET
 END LEVEL
                      82.336 A
0.1 GAL
 END TEMP
 END MATER
                      <u>0.038</u> IN
  END WATER.
          HOURLY DATA
               DEG F GAL
82.382 5627.88
82.361 5627.94
  TIME
   G: 58
    :58
               82,340 5628.01
    2:58
  SLOPE
                  0.031 GALZHR
                  0.029 CAL /HR
  SLOPE LOW
                  0 032 GAL AR
  SLOPE HIGH
TEST RESULT
                          PASSET
   SLOPE EQUALS
   LEAK RATE
```

Confidential Business Information

00014228

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Francis
          FOSS MARITIME
      9030 NW ST HELENS RD
     P. O. BOX 83018
PORTLAND OREGON 97231
          1-503-286-9631
    08/01/2004
                           7:58
TORK- TEST STRORT
    TANK 1
               _ _20032,7-GAL
   TIESEL
   LEAK TEST
                    0.200 GPH
    LEAK THRESHOLD 0.100 GPH
   CONFIDENCE LEVEL
                         95.0%
    TEST STARTED
                         23:59
   TEST STARTED 07/31/2004
   LAST DELIVERY
                         22:12
   LAST DELIVERY 07/29/2004
   GROSS CAPACITY
                         38.2%
   BEGIN GROSS
                   7658.4 GAL
    REGIN NET
                   7600.2-GAL
   BEGIN LEVEL
                    48.435 TN
   BEGIN TEMP
                     76,697 F
   BEGIN WATER
                      й, 0 GAL
   BEGIN WATER
                     0.000 IN
   END TIME
                          7:58
  -END-DATE-
                   98/91/2004
   EMO GROSS
                   5839.0 GAL
  END HET
                   5793.2 GAL
  END LEVEL
                    39.635 IN
                     77.258 =
  END WATER
                      0.0 GAL
  END WATER
                     0.000 IN
         HOURLY DATA
  TIME
              OEG F
                     GAL
            76,688 15502.78
76,678 15502.69
   Ø: 50
   1:59
   2:56
            76.660 (5502,93
   3:58
            76.659 75502.88
            76.667 15488,82
77.379 11248.51
77.286 11247.98
77.258 11247.99
   4:58
   5:58
   6:58
   7:58
  SLOPE
            -682,018 GAL/HR
 SLOPE LO -695,247 GALZHR
SLOPE HI -668,799 GALZHR
TEST RESULT FAILED
 SLOPE FOURLS CALCULATED
 LEAK RATE
       FOSS MARITIME
   9030 NW ST HELENS-RD
     ° 0. 30% 83018
  PORTLAND OREGON 97231
       1-503-286-0631
 9879 72884
                       7:59
```

```
TANK 2 ---
               12003217 GAU
LEAK TEST
                  0,200 GPH
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.0%
TEST STARTED 23:59
TEST STARTED
                07/31/2004
LAST DELIVERY
                      22;12
LAST DELIVERY 07/29/2004
                       39.7%
GROSS CAPACITY
                 7962.6 GAL
7902.3 GAL
BEGIN GROSS
BEGIN NET
                 -49-876 IN
BEGIN-LEUEL
                    76.657 °
REGIN TEMP
SEGIN WATER
                    8.0 GAL
SEGIN WATER
                   9.890 IN
                 7:58
3878:72004
5497:7 6AU
TWD DATE
ENDLUSOSE
EMD WET
                 5454.8 GAL
END LEVEL
                  37,936 IN
END TEMP
                   77.119 F
END WATER
                    ଥି.ନ GAL
END WATER
                   0.000 IN
       HOURLY DATA
TIME
            DEG F GAL
 0:58
           76,648 15502,78
 1:58
           76.640 15502.69
 2:58
           76.631 15502.93
 3:58
           76.623 15502.88
 4:58
           76,694 15488,82
           77.048 11248.51
77.102 11247.98
77.119 11247.99
 5:58
 6:58
 7:58
SLOPE -682.018 GAL/HR
SLOPE LO -695.247 GAL/HR
SLOPE HI -668 788 GAL/HR
TEST RESULT
                      FAILED
SLOPE EQUAL CALCULATED
```

TOSS MARITIME
9030 NW ST HELENS RD
P. O. BOM 83018
PORTLAND OREGOM 9723:
1-583-286-0631

09/13/2004

15:66

LEAK TEST REPORT

TANK 3

20032.7 GAL

DIESEL

LEAK TEST 0.100 GPH 4 LEAK THRESHOLD 8.050 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 7:00 TEST STARTED 09/13/2004 LAST DELIVERY 20:34 LAST DELIVERY 09/10/2004 GROSS CAPACITY 48.4% 9691.8 GAL -9627.7 GAL -57.986 IN BEGIN GROSS BEGIN NET BEGIN LEVEL BEGIN TEMP BEGIN WATER 74.540 F 8.8 GAL 8.888 IN BEGIN WATER END TIME 15:00 END-DATE -89/13/2004 9692.1 GAL 9627.9 GAL 57.987 IN END GROSS END HET END LEVEL END TEMP 74,548 F 0.0 GAL END WATER 0.000 IN

HOURLY DATA

	TIME	DEG F GAL
	8:0 <u>0</u>	<u>_74.541_29147:71</u>
	9:09	74.542 20147.93
	10:00	74.543 20147.87
	_11:68	74:544 20147.93
7	12:00	74.545 20148.12
	~13:00~	74.546 20147.95
	14:00	74.547 20147,78
	15:00	74.548 20147.85
	SLOPE	0.006 GAL/HR
	SLOPE LO	W 0.002 GAL/HR
	SLOPE HI	GH 0.011 GAL/HR
	TEST RES	ULT PASSED
1 -	SLOPE EQ	UALS CALCULATED
1	JUEAN LRÁT	T.
ار م	MALLES LINE	Ť

#058 MARITIME 9030 NW ST HELENS RD P. O. 90X 83018 PORTLAND OREGON 97231 1-503-286-0631

09/13/2004

15:01

LEAK TEST REPORT

TANK 2

20032.7 GAL

DIESEL

LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH 95.0% 7:00 CONFIDENCE LEVEL TEST STARTED TEST STARTED 99/13/2004 LAST DELIVERY 20:34 LAST DELIVERY 09/10/2004 GROSS CAPACITY 52.92 BEGIN_GROSS . 1<u>0</u>590.1 GAL 19520.0 GAL SEGIN NET 62.178 IN 74.537 F BEGIN LEVEL BEGIN TEMP 0.0 GAL BEGIN WATER SEGIN WATER 0.000 IN END TIME 15:00 09/13/2004 END DATE 10590.2 GAL END GROSS END NET 10520.0 GAL 62,178 IN END LEVEL END TEMP 74.549 F ଟ.ଟ GAL ଡ.ଡଡେ IN : END WATER END WATER

HOURLY DATA

TIME DEG F GAL 74.539 20147.86 8:00 9:00 74.540 20148.14 74.542 20150.20 19:00 74.543 20147.98 11:00 74.545 20148.02 74.546 20147.89 12:99 13:00 14:90 74.548-20147.67 15:00 74.549 20147.87

SLOPE 0.006 GAL/HR
SLOPE LOW 9.002 GAL/HR
SLOPE HIGH 0.010 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED LEAK RATE

10/07/2004

(5:57)

LEAK TEST REPORT

TANK 1

20032.7 GAL

DIESEL

```
LEAK TEST - 0.100 GPH
LEAK THRESHOLD 0.050 GPH
                       95.0%
7:07
CONFIDENCE LEVEL
TEST STARTED 7:07
TEST STARTED 10/07/2004
LAST DELIVERY 18:19
LAST DELIVERY 10/04/2004
GROSS CAPACITY 74.3%
BEGIN-GROSS- 14883.5 GAL
BEGIN NET
                 14815.5 GAL
BEGIN LEVEL
                   82.819 IN
                    70.055 F
BEGIN WATER
                     9.0 SAL
                    0.000 IN
 BEGIN WATER
                        15:07
END TIME
 END DATE
                  1979772994
END GROSS
                 14881.8 GAL
                 14813.6 GAL
82.811 IN
END NET
 END LEVEL
                     70.076 F
 END TEMP
                     и.и <u>СА</u>Ц
 END WATER
                     0.000 IN
 END WATER
```

HOURLY DATA

```
DEG F GAL
TIME
          70,058 30345.42
 8:07
          70.060 30346.47
 9:07
          70.063 30341.54
10:07
          70.065 30350.27
70.067 30345.41
11:07
12:97
          70.070 30348.22
13:97
          70.073 30348.97
14:07
15:97
          70.076 30339.96
            -0.009 GAL/HR
-0.047 GAL/HR
SLOPE
SLOPE LOW
SLOPE HIGH
                     PASSED
TEST RESULT
               CALCULATED
SLOPE EQUALS
 .EAK RATE
```

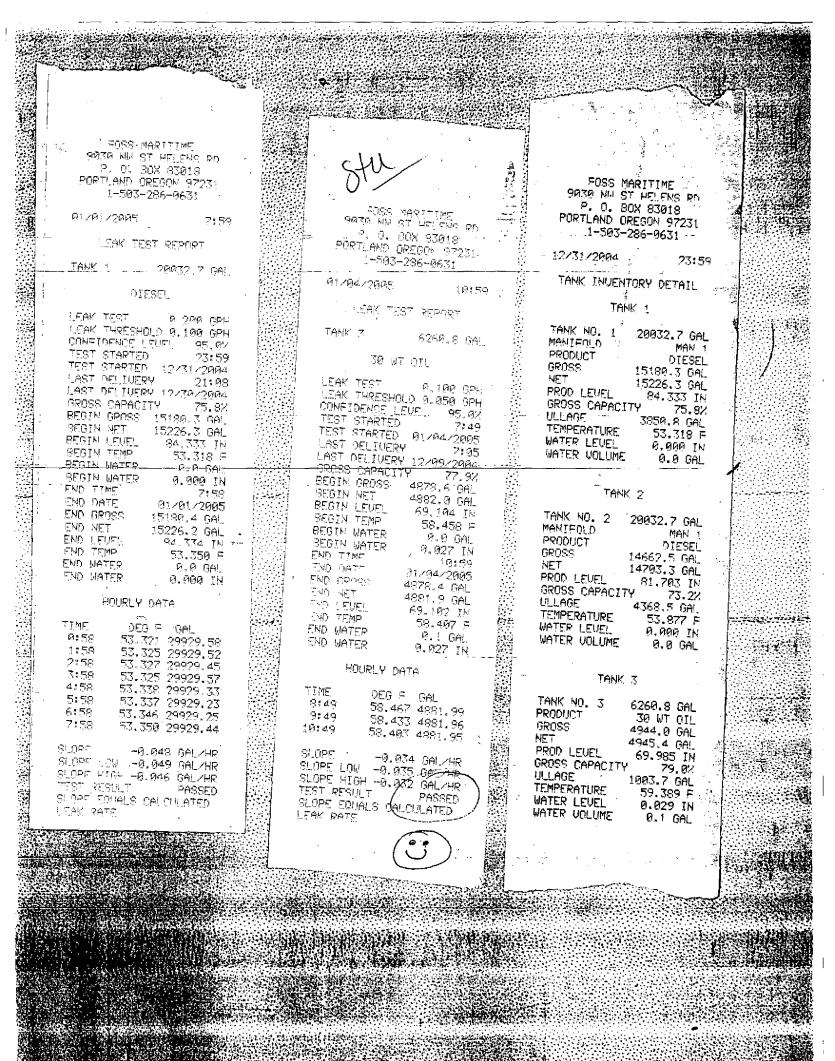
```
5093 MARITIME
19836 NW ST HELENS RD
         9. 0. 30x 83018
      PORTLAND OREGON 9723
          1-503-286-0631
    18/87/2004
                         15:08
        LEAK TEST REPORT
    TANK 2
                  20032.7 GAL
             DIESEL
   LEAK TEST
                    0.100 GPH
   LEAK THRESHOLD 0.050 GPH
   CONFIDENCE LEVEL
                        95, 92
   TEST STARTED
TEST STARTED
                  1979772994
   LAST DELIVERY
                        18:19
   LAST DELIVERY 19/04/2004
   GROSS CAPACITY
                      77.9%
   BEGIN GROSS
                15597.1 GAL
   BEGIN NET
                 15526.5 GAL
  BEGIN LEVEL
                   86,494 IN
  BEGIN TEMP
                    69,957 F
  BEGIN WATER
                    0.0 GAL
  BEGIN WATER
                    0.000 IN
  END TIME
                      15:07
  END DATE
                 19/97/2994
  END GROSS
                15597.2 GAL
15526.3 GAL
  END NET
 END LEVEL
                  86.495 IN
 END TEMP
                   69.988 ⊭
 END WATER
                    0.0 GAL
 END WATER
                 ---0:000 IN
       HOURLY DATE
 TIME
            DEG F GAL
          69.961 30345.42
  8:07
  9:07
          69.964 30346.47
 10:07
          69.968 30341.54
 11:07
          69.972 30350.27
12:07
          69.976 30345.41
13:97
          69.980 30348.22
14:07
          69.984 30348.97
15:07
          69.988 30339.96
SLOPE
            -0.909 GAL/HR
SLOPE LOW
SLOPE HIGH
            -0.047 GALZHR
            0.030
TEST RESULT
SLOPE EQUALS
             CALCULATED
```

PARE MARTTIME STATE THE RO PORTLAND OREGON 9723 1-503-286-9631 19-97-2996 LEAK TEST REPORT TANK 3 8260.8 GAL 30 WT DIL LEAK TEST
LEAK TEST
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.050 GPH
TEST STARTED 10.07.2004
LAST DELIVERY 5:46
GROSS CAPACITY
BEGIN GROSS 2681.2 GAL
BEGIN LEUFI 2665.5 GAL 2681 2 GAL 2685.5 GAL 42.136 IN 72.804 F 0.1 GAL 10.037 IN 10.07/2004 2665.6 GAL 42.137 IN 72.789 F BEGIN LEVEL BEGIN TEMP BEGIN WATER BEGIN WATER END DATE END GROSS END NET END LEVEL END TEMP END WATER END WATER 0.1 GAL 0.038 IN HOURLY DATA TIME DEG = GAL 72.799 2665.66 72.793 2665.66 72.790 2665.70 8:97 9:07 10:07 SLOPE SLOPE LOW SLOPE HIGH TEST RESULT SLOPE EQUAL LEAK RATE 8.814 GAL HR 8.817 GAL HR 9-015 GAL HR PASSED CALCULATED

FOSS MARITIME

```
THES WARTTIME AND ARTS WILL STEEL SECTION SECTIONS AND
                                                     P. O. 30% 83018
                                                   PORTLAND DREGON 9773!
                                                        1-503-286-8631
  P., 0. BOX 83018
                                                  41/81/588¢
 POPTLAND OREGOM 97231
                                                       LEAK TEST REPORT
     1-503-286-0631
                                                                   6760. $ 64L
  70172004 ······
                       7:58
                                                   TANK 3
    LIAK TEST REPORT
                                                            30 WT ON-
                                                                     0,200 <sup>GPU</sup>
TAMK 1
             . 20032,7 GAL
                                                    LEAK TEST
                                                     THRESHOLD 9, TAB OPH
                                                     CONFIDENCE LEVE
          DIESEL
                                                      TEST STARTED
                                                                     10/21/2004
LEAK TEST
                 .0.200 GP4
                                                     TEST STAPTED
                                                                             5:46
 EAK THRESHOLD 0.100 GPH
                                                      AGT DELIVERY
                                                      LAST DELTVERY 07/28/2994
COMPIDENCE LEVEL
                      95.0%
                                                                       24.6%
+541.8 GAL
TEST
     STARTED
                      23:59
                                                      GROSS CAPACITY
TEST STARTED
                10/31/2004
                                                      BEGIN GROSS
                                                                       1536.5 GAL
LAST DELIVERY
                      16:38
                                                       BEBIN NET
                                                                        28 MAZ IN
LAST DELTUERY 10/29/2904
                                                       BEGIN LEVEL
                                                                          67.561 F
B 98L
GROSS CAPACITY
                                                        REGIN TEMP
BEGIN-BROSS
                                                        BEGIN WATER
                                                                          9.034 IN
2:53
              13108.5_GAL
BEGIN WET - .
                                                        BEGIN WATER
BEGIN LEVEL
                 74.129 JM
                                                        END TIME
                                                                          11/01/2004
                  61.925 F
SEGIN TEMP
                                                                          <sub>isati</sub>a GAL.
                   0.0 GAL
BEGIN WATER
                                                         END GROSS
                                                                          536-6 GAL
BEGIN WATER
                  0.000 IN
                                                                           78,808 IN
                                                         THE OWN
END TIME
                                                         END LEUFL
                                                                            67.525 F
                                                                             IQ. 1 GAL
                11/01/2004
END DATE
                                                         THO TEMP
               13120.8 GAL
13108.7 GAL
END GROSS
                                                          END WATER
                                                                             0.034 IN
END NET
                                                          END WATER
                  74.133 IN
END LEVEL
EMD TEMP
                   62.031 F
                                                                 HOURLY DATA
                                                                       DEG F GAL
67.547 1536.69
67.531 1536.65
END WATER
                   9.0 GAL
END WATER
                   0.000 IN
                                                            TIME
                                                             ด:58
       HOURLY DATA
                                                             1:58
                                                                          9.005 CAL/HR
            OEG F GAL
TIME
                                                                          0.005 GAL/HR
                                                            SLOPE
                                                             SLUPE LUW WIND ONLY HE
SLOPE HIGH 8.995 GALZHR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
           61.938 26957.94
 0:58
           61.952 26957.53
61.966 26957.72
 1:58
 2:58
 61.979
                  26957.98
           61,992
                  26957,84
 4:58
                                                              LEAK RATE
 5:58
           62.906 26958,15
           62.018 26957.49
 6:58
           62.031 26957.33
 7:58
SLOPF
              0.068 GAL/HR
SLOPE LOW 0.062 GAL/HR
SLOPE HIGH 0.073 GAL/HR
                     PASSED
TEST RESULT
SLOPE EQUALS CALCULATED
LEAK RATE
```

```
FOSS MARITIME
  9030 NU ST HELENS RD
    2. 0. 80X 83018
 PORTLAND OREGON 97231
      1-503-286-9631
                . 7:59
11/01/2004
     LEAK TEST REPORT
TANK 2
                20032.7 GAL
      DIESEL
LEAK TEST
                   0.200 GPH
LEAK THRESHOLD 0,100 GPH
CONFIDENCE LEVEL 95.8M
TEST STARTED 23:59
TEST STARTED 10/31/2004
LAST DELIVERY _____16:38
LAST DELIVERY 10/29/2004
GROSS CAPACITY
BEGIM GROSS 13861.3 GAL
                 13849.0 GAL
77.728 IN
SEGIN NET
BEGIN LEVEL
                     61.955 F
BEGIN TEMP
                     ଡ,ଜ ଜେଧ
BEGIN WATER
REGIN WATER
END TIME
END DATE
                     0.000 IN
7:58
                  11/01/2004
                 13861.7 GAL
13848.6 GAL
END GROSS
END WET
END LEVEL
                   77.7%0 IN
                   -62.074-F
END TEMP
END WATER
                      9.0 GA
                0.000 IN
END WATER
        HOURLY DATA
             DEG F11GAL 1
TIME
            61.970 26957.94
 0:58
            61.986 26957.53
62.001 26957.72
62.016 26957.98
  1:58
 2:58
  3:58
            62.031 26957.84
 4:58
 5:58
            62.046 26958.15
            62.060 26957.49
62.074 26957.33
 6:58
  7:58
SLOPE
                0.068 GALZHR
SLOPE LOW 0.000 COLUMN
SLOPE LOW 0.062 GALVHR
SLOPE MIGH 0.073 GALVHR
TEST RESULT PASSED
TEST RESULT PASSEE SLOPE EQUALS CALCULATED LEAK RATE
```



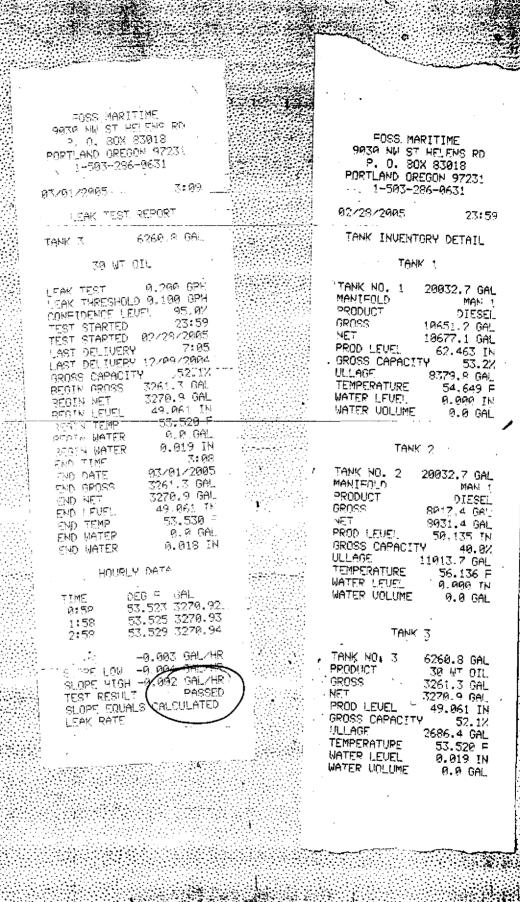
```
;FOSS MARITIME!
9930 NO ST HELFUS RD
  9.10.20X-83018
PORT(AND OREGON 9773)
      1-593-286-9631
91/01/2995
                            7:59
      CEAK TEST REPORT
TANK 2
                  20032.7 GAL
LEAK TEST
                     9.200 OPH
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.0%
TEST STARTED 23:59
TEST STARTED 12/31/2004
LAST DELIVERY
                          21:08
LAST DELIVERY 12/30/2004
SROSS CAPACITY
BEGIN WATER
                       ଉ.ଡ ନଧ୍
                      0.000 IN
7:58
REGIN WATER
FND TIME
END DATE
                    01/01/2005
                  14662.8 GAL
14703.2 GAL
81.785 IN
53.920 F
END GROSS
END MET
END LEVEL
END TEMP
END WATER
                       Ø, P GAL
END WATER
                      8.809 IN
        HOURLY DATA
              DEG F GAL
            53,896 29929,58
 9:58
            53.889 79929.52
53.902 29929.45
53.912 29929.57
 1:58
  3:58
            53,917,29929,33
53,935,29929,23
53,928,29929,25
 4:58
 5:58
 6:58
 7:58
             53,929 29929.44
               -0.048 GAL/HR
SLOPE
SLOPE LOW -0.049 GAL/HR
SLOPE HIGH -0.046 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
```

```
FOSS MARITIME
GAZA NU ST HELENS SO
                                                            FOSS MARITIME
                                                         SOME NEW ST HELLING BU
                                                       9, 9, 90% 83918
POPTLAND DREGON 97231
    P. O. 80% 83018
 PORTLAND OREGON-9723
                                                             1-503-286-6631
      1~503~286~0631
                                                       02/01/2005
                                                                             3:00
02/01/2005
                      7:59
                                                           LEAK TEST REPORT
    LEAK TEST REPORT
                                                                       5259.8 BAL
                                                       TANK 3
              20032.7 GAL
TANK 1
                                                               SA WY OIL
          DIESEL
                                                       LEAK TEST
                                                                        0.790 BPM
LEAK TEST
                8,200 GPU
                                                       CEAK THRESHOLD 9.100 GPH
LEAK THRESHOLD 0.100 ÖPH
                                                       CONFIDENCE LEUE!
COMPTDENCE LEVEL
                                                        TEST STARTED
TEST STARTED
TEST STARTED 91/31/2005
                                                        JES<del>I STAR</del>TED-
                                                        LAST DELIVERY
LAST DELTUERY 10/00/0004
LAST DELIVERY 81/31/2005
                                                        GROSS CAPACITY
GROSS CAPACITY
                    82.2%
                                                                       4218.4 GAL
BEGIN GROSS
                                                        BEGIM GROSS
              16468.8 GAL
                                                        BEGIN NET
                                                                        4229.3 GAL
SEGIN NET
               16543.2 GAL
                                                        BEGIN LEVEL
                                                                         68.636 IN
BEGIN LEVEL
                91.176 IN
                                                                          54.282 F
9.0 GAL
                                                        BEGIN TEMP
SEGIN TEMP
                 50.036 F
                                                        BEGIN WATER
BEGIN WATER
                  9.0 SAL
                                                                          0.021 IN
                                                        BEGIN WATER
SEGIH WATER
                 0.000 IH
7:58
                                                        END TIME
                                                                              3:98
END TIME
                                                                        02/01/2005
                                                        SHO DATE
SHD DATE
               82/81/2005
                                                                        4218,4 GAL
                                                        END GROSS
END GROSS
               16470.6 GAL
                                                                        4229.4 GAL
                                                        END MET
END MET
               16543.0 GAL
                                                        END LEUFL
                                                                         60.636 IN
END LEUSL
                91,180 IN
                                                                          54,280 F
                                                        ENO JEMP
END TEMP
                  50.303 F
                                                                           9.9 GAL
                                                        END WATER
END WATER
                  0.9 GAL
                                                                          0.021 IN
                                                        END WATER
END WATER
                 0.000 IN
                                                               HOURLY DATA
      HOURLY DATA
                                                                    DEG F GAL
                                                         TIME
TIME
           DEG F GAL
                                                                    54,281, 4229,43
                                                          Ø:58
 0:58
          50.061 31217.66
         50.080 31217.72
50.123 31217.34
                                                                    54,281 4229.43
                                                          1:58
 1:58
                                                                    54.280 4779.40
2:58
                                                          2:58
 3:58
          50.161 31217.30
                                                                     8.881 GAL HR
 4:59
          50.205 31217.29
                                                         SLOPE
                                                         SLOPE LOW - P. DRO GAL HA
SLOPE HIGH B 002 GAL HR
         50.229 31217.47
50.257 31218.07
50.303 31218.14
 5:58
 6:59
                                                         TEST RESULT
                                                                             PASSED
                                                         SLOPE EDUALS DALCULATED
 7:58
             0.025 GAL/HR
0.021 GAL/HR
SLOPE LOW
                   शांति उद्योह
             \mathcal{O}
               129 0AC/A
TEST RESULT
                    PASSER
SLOPE EDUAL
               ALCULATED,
```

```
9070 % 37 HSLEMS.RD.
2. 0. 30% 83018
PORTLAND DREGON 97231
       1-503=286=0631
82/01/2985
                            7:59
     LEAK TEST REPORT
TANK 2
                  20032.7 GAL
             DIESEL
LEAK TEST
                     9,298 GP⊟
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVE!
TEST STARTED 23:59
TEST STARTED 01/31/2005
LAST DELIVERY 18:03
LAST-DELTWERY 01/31/2005
GROSS CAPACITY 72.9%
BEGIN GROSS 14485.4 GAL
                  14674.5 GAL
81,417 IN
BEGIN MET
BEGIN LEVEL
BEGIN TEMP
                      49.601 F
BEGIN WATER
                      A.A GAL
SEGIN WATER
                      ଡ଼,ଜନାନ ଅଟ
END DATE
                  14675. GAL
81.430 IN
END GROSS
END NET
END LEVEL
                       49,892 F
END LEMB
END WATER
                       0.0 GAL
END WATER
                       0.000 IN
        HOURLY DATA
             0EG 5 GAL
49.64<u>6</u> 31217.66
TIME
 0:58
            49.687 31217.72
49.726 31217.34
49.762 31217.30
 1:58
 2:58
 3:58
 4:58
             49.796 31217.29
            49.829 31217.47
49.861 31218.07
 5:58
 6:58
 7:58
             49.892 31218.14
SLOPE
                 0.025 GALZHR
SLOPE LOW 0.021 GAL/HR
SLOPE HIGH 0.029 GAL/HR
TOST RESULT PASSED
SLOPE EDUALS CALCULATED
LEAK RATE
```

774 - TIME

3 1 E 3 7 1



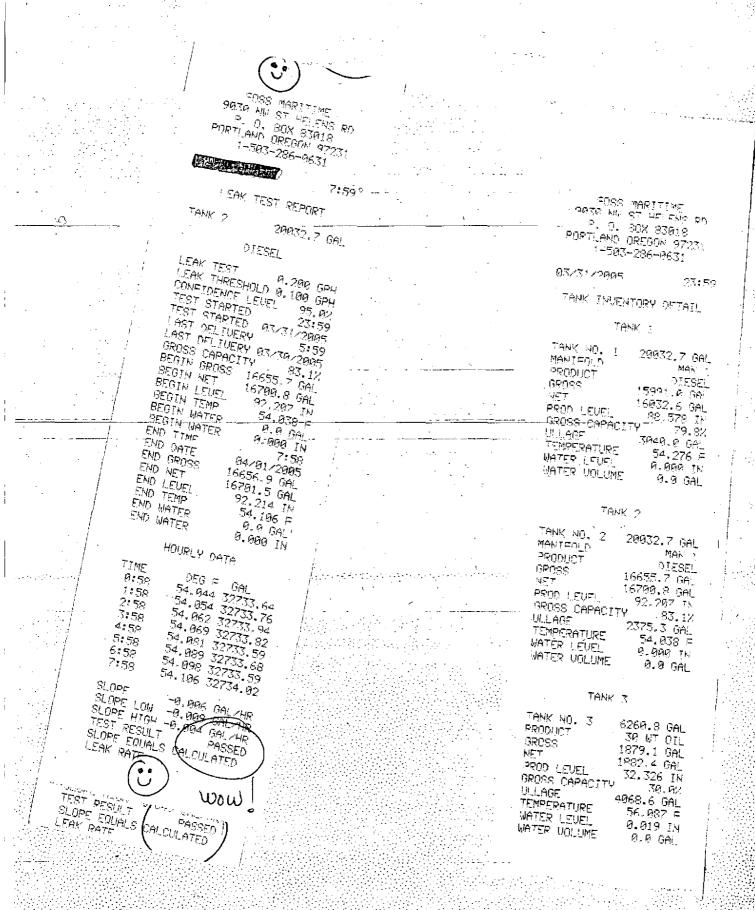
```
GOSS MARITIME GOSS NICES SO
          . O. 30× 83A18
        PORTLAND OREGON 9773:
             1-503-286-0631
      03/31/2905
                            23:59
       TANK INVENTORY DETAIL
                TANK :
     TANK NO. 1
                     29932.7 GAL
     MANTEDIA
     PRODUCT
                           MAA
                          DIESEL
     GROSS
                    15901, R (B)
                    16032.6 GAL
88.578 IA
    PROD LEVEL
-GROSS-CAPACITY
                          79.8%
    UHLAGE
                    3040,0 GAL
54.276 ≓
    TEMPERATURE
    WATER LEUFL
                      A. GGG TH
    WATER VOLUME
                       0.0 GAL
              TANK 2
   TANK NO. 2
                  20032.7 GAL
   Wani=u[D
   PRODUCT
                         MAN:
                  DIESEL
16655.7 GAL
16700.8 GAL
   GROSS
   VET
  PROD LEVEL
                    92, 207 16
  GROSS CAPACITY
                  , 83.1%
2375.3 GAL
  ULLAGE
  TEMPERATURE
                     54.038 s
  WATER LEVEL
                    ଜ ପ୍ରଜ୍ଞ TN
  WATER VOLUME
                     0.0 GAL
            TANK 3
 TANK NO. 3
                 6260.8 GAL
 PRODUICT
                  30 UT OIL
 GRUSS
                 1879.1 GAL
NET
                 1982. ← GAL
PROD LEVEL
                  32.326, IN
3079%
ULLAGE.
                4068.6 GAL
TEMPERATURE
                  56.887 E
WATER LEVEL
                  0.019 IN
WATER UGILLIME
                   0.0 GAL
```

```
FORS MARITIME
GRAND BY HELTHE BO
       .P. 0. 30X 83018
   PORTLAND OREGON 972%
         -503-286-0631
 9479: 72995
                                   7:50
       LEAK TEST REPORT
 TANK 1
                      20032,7 666
                OIESEL
LEAK TEST 6.299 CPU
LEAK THRESHOLD 0.100 CPU
CONFIDENCE LEUEL 95.84
TEST STARTED 23:59
TEST STARTED 93/31/2905
LAST DELIVERY 5:59
LAST DELIVERY 93/39/2905
CASS CAPACITY 29.84
PEGIN CPOSS 15991 29.84
 BEBIN DROSS 15991 R GAL
 BEGIN VET
                       16932.6 GAL
 BEGIN LEVEL
                          88.578 (N
SEGIN TEMP
                            54.276 F
BEGIN WATER
                             9.6 GAL
 BEGIN WATER
                            0.000 TN
 END TIME
 THO DATE
                        84/81/2005
ยหม่ ดลดรร
                      15991.4 GAL
16032.6 GAL
 END NET
END LEUFL
                          88.580 IN
 END TEMP
                            54,329 8
END MATER
                             B. B GAL
 END WATER
                           0,000 IN
          HOURLY DATA
 TIME
                 DEG = SAL
               069 9 6AL
54,296 32733,64
54,294 32733,76
54,369 32733,82
54,366 32733,69
54,321 32733,68
54,321 32733,68
  R:58
  1:58
  7:58
  3:58
  2:50
  5:58
  \mathcal{C}_{i} \in \mathcal{T}^{G_{i}}
                54,329 32734.02
  7:58
SLOPE
                   -9.895 GALZHR
SLOPE LOW -0.000 DALZER
SLOPE HIGH -0.004 GALZER
TEST RESULT PASSED
```

SLOPE EQUALS MALCULATED

FOSS MARTTINE

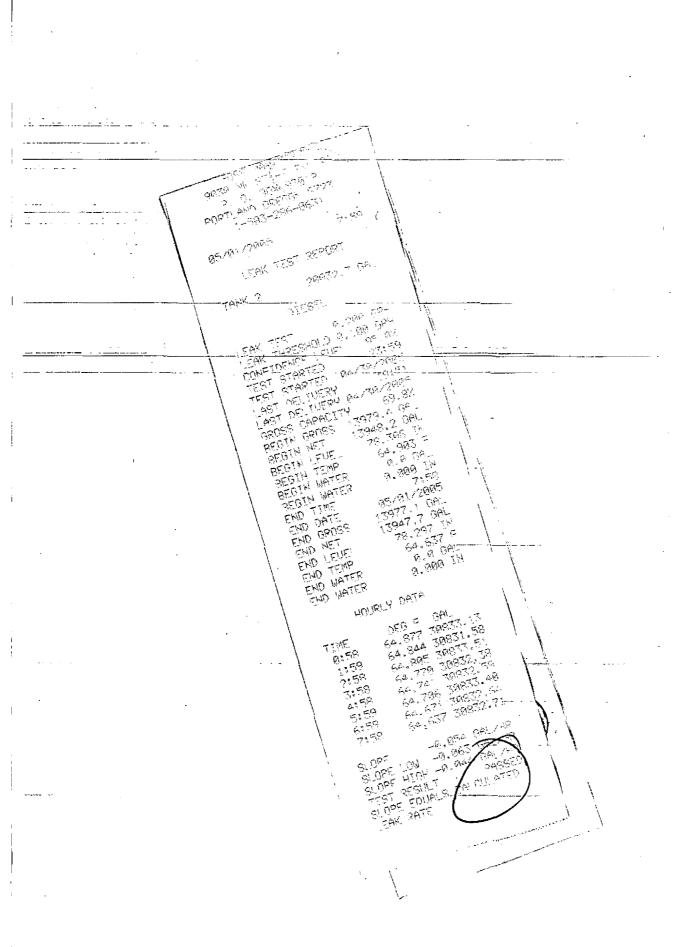
LEAK RAZ



```
FOSS MARITIME
  9030 NU ST HELENS RO
 P. O. BOX 83018
PORTLAND OREGON 9723:
       1-503-286-0631
04/01/2005
                          2:59
     LEAK TEST REPORT
TANK 3
                  6260.8 GAL
         30 MT OIL
LEAK TEST
                   0.200 GPH
LEAK THRESHOLD 9.100 GPH
CONFIDENCE LEVEL 95.8%
TEST STARTED 23:59
TEST STARTED 93/31/2005
LAST DELIVERY. 7:05
LAST DELIVERY 12/09/2004
GROSS CAPACITY
                      30.0%
                 1979.1 GAL
BEGIN GROSS
                   1882.4 GAL
32.375 TM
56.087 F
SEGIH WET
BEGIN LEVEL
BEGIN TEMP
BEGIN WATER
                      0.0 GAL
                     0.019 IN
BEGIN WATER
FND TIME
                   04/01/2005
END DATE
                  1879.2 GAL
1882.5 GAL
32.327 IN
56.083 F
END GROSS
END HET
EMD_LEUF1
END TEMP
                      ନ,ନ GAL
END WATER
END WATER
                     0.019 IN
       HOURLY DATA
             DEG F GAL
TIME
 0:58
             56,984 1882.46
 1:58
             56.085 1882.46
 2:58
             56.083 1882.55
SLOPE - 0.047 GAL/HR
SLOPE LOW 0.946 GAL/PS
SLOPE HIGH 9/049 GAL/HR
TEST RESULT PASSED
                9.947 GAL /HR
SLOPE EQUALS CALCULATED
```

FOSS MARITIME 9030 NW ST HELENS RD P. O. SOX 83018 PORTLAND OREGON 97231 1-503-286-0631 gate al grive the or 04/30/2005 23:59 9. J. BOM 878:9 PORTLAND DREGOS 9797 TANK INVENTORY DETAIL 1-595-286-9651 TANK 1 05/01/2005 TANK NO: 1 20032.7 GAL LYAK TOST REPORT MANIFOLD PRODUCT DIESEL TANK 3 6260.0 06. GROSS 16918.1 GAL NET 16885.0 GAL 30 WT 01. 93.687 IN PROD LEVEL GROSS CAPACITY ULLAGE 84.4% FERK TEGT ୍ର ମୁଷ୍ଟ ମୃମ୍ଭ 2113.0 GAL LEAK THRESHOLD 0.100 GPH 64.298 F COMPLOENCE (ENE TEMPERATURE 95 07 WATER LEVEL 0.000 IN TEST STARTED 04/30/2005 WATER VOLUME 0.0 GAL AST DELIVERY 7:95 LAST DELIVERY 12/89/2894 TANK 2 GROSS CAPACITY 15,7% 925, 2 GA BEGIN GROSS TANK NO. 2 20032.7 GAL BEGIN MET 985.4 GAL MANTEDIO MAN ! BEGIN TEMP 29.379.7K 59.526 A PRODUCT DIESEL GROSS 13979.3 GAL REGIN WATER NET 13948.1 GAL BEGIN WATER 9.920 EN PROD LEVEL 78.307 IN GROSS CAPACITY 69.8% 95/01/2005 END DATE ULLAGE 5051.8 GAL 985.2 66 END GROSS TEMPERATURE 64,903 F նար աբդ 985.4 GAL WATER LEVEL . 0.000 IN END LEUE 20.380 IN WATER VOLUME 0.0 GAL 59.551 9 END TEMP END WATER 0.0 GA1. END WATER 0.020 IN TANK 3 HOURLY DATA TANK NO. 3 6260.8 GAL PRODUCT . 30 NT OIL OEG - GAL TIME GROSS 985.2 GAL 59.536 985.46 0:58 NET 985,4 GAL 59,545 985.42 1:59 PROD LEVEL 20.380 IN GROSS CAPACITY 15,7% -0,004 GAL/HD SLOPE ULLAGE 4962.5 GAL SLOPE LOW -0.005 TEMPERATURE 59.526 F SLOPE HIGH -0.00% GAL HE WATER LEVEL 0.019 IN TEST RESULT PASSED WATER VOLUME 9,9 GAL SLOPE FOURLS PALCULATED LEAK RATE

TORS MARTTIME OF THE SE PORTLAND 08500 0727 1-503-286-0631 9579:₁₇₂995 7:39Alchestoriot 20032.7 GAL LEAK TURESHOLD 0.100 GPH COMFIDENCE LEUT /95.0% TEST STARTED 23:59 TEST STARTED 94/79/2995 LAST DELIVERY MAYOMIZAND LAST DELIVERY 04/30/2006 GROSS CAPACITY 84.5% BEGIN GRASS 16919 - GA BEGIN NET 16885.0 GAL 93.687 [6 BEGTH FUEL BEGIN TEMP 64.298 = REGIN WATER SEGIN WATER 0.6 GA_ ____9.800__{7N} END TIME 7:50 95/81/2095 16916-2-64 END GROSS END NET 16885.0 GAL 93.677 JA END LEVE EMD TEMP END WATER 64.949 c END WATER 0.0 CAL 9.000 IN HOURLY DATE--TIME DEG = GAL DEB = CAL 64.258.38831.58 64.221.38831.58 64.188.38832.38 64.156.38832.38 64.179.38832.38 64.192.38833.48 64.875.38832.2 0159 1:50 2:58 3:58 4:5Ř 5:59 6:59 7:58 54,649 30832,2 SUPP-0.850 (69) SLOPE LOW STUDE HIGH -NIGH -0.063 TEST PESULT TAL AL SLOPE FOUR S 24SGF



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	The Hand State of the Company of the Section (1997) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				'
	- I CUM NAME OPERAGE GRASS STATE				=098 MARITIME 9030 NN ST UFLENG PO 9030 NN ST018
	1-563-286-665(**) 1(11	. 9		1	FUSIS STRUCTURE PO
•	r ·			1	9030 NW 30X 83018 P. O. 80X 83018
	F 9679173995 3199 1			į	
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	Tak list sizes		•		1-000
				· į̇́	- 185/33/2885
	FORM, A DA				
	The same of the sa			1	TANK INLIENTORY DETAIL
	<u>₹</u> 38 #100. <u>—</u>			<u>_</u>	
	S SEAK TEST & 255 cm.				TANK 1
	C TAY TUST (9.260 GPS)				i .
	CURRENCE CAND 82 88 854				TANK NO. 1 29032.7 GAL MAN 1
	95.00				MANIFOLD DIESEL
	- 「大震」 ヤースニー こうこう ヤイ こうんか 内側 ヤー・ルー	•	•		PRODUCT 4770.9 GAL
	- 1976 - 1976年				PRODUCT 4372.9 GAL 9808S 4364.3 GAL
	# Lest OF THERW 95/19/2005			*	
	98088 DAPACTTY 77 77				PROD LEVEL 21.8%
					GROSS CAPACITY 21.87 GROSS CAPACITY 14658.2 GAL
	P SEGIN var i LONGIN YTH				1 11 1 ACE " 707 F
	- 1 - 20階です:	٠.			TEMPERATURE & DOOR IN
	PA SEGIN TUNED THE TOTAL CONTROL				1 - 154FD 154FG - 5 - 5 CAL
	e e e e e e e e e e e e e e e e e e e				WATER UDLUME 0.8 OFF
					,
	FAID. TIME 8.029 IN -				
				· · · · · · · · · · · · · · · · · · ·	TANK 2
					TANK NO. 2 20032.7 GAL
	5 END LEUE: 55.543 IN 1889				MANIFOLD DIESEL
				•	PRODUCT 4983.2 GAL
	END MATER 58.996 FACE				: GRUSD 4074 8 UAL
	THO WATER 9.029 IN THE				NET 30,644 IN
	- 1 中 - ※左右/				PRUD LEYET TO 20.46
	HOURLY DATA				GROSS CAPACITY ULLAGE 64.539 F
	TIME NO				ULLAGE 64.539 F TEMPERATURE 0.000 IN
	그 사람들은 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그				
	- 1	-			WATER VOLUME 9.8 GAL
					Will the same
	7:58 69.000 4816.7744 7:58 68.992 4816.79 3				· · ·
		2 1 2			TANK 3
	I' SLOPE I'M GER BALLYR COLD '				3 6260.3 GAL
	SLOPE HIGH 0.021 SALVHR 1.00		J		TANK NO. 3 6260.5 OIL
	TEST RESULT TO SEE SHIP CONTROL OF THE CONTROL OF T			`	PRODUCT AGGE 5 GAL
	SLOPE EQUALS CALCULATED			•	GROSS 4016 6 GAL
	LEAK PATE CHLUULATED				
		:	•		・ PROD I-PYET 77. 06
					GROSS CAPALLY 1111 2 GAL
					ULLAGE 69.016 F
					TEMPERALURE 19, 929 IN
	(-	-	: CIATED LEVEL A CAL
					WATER UOLUME
t	•				
				¥-	
	•				
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	·				•
	•			•	
	•				

=088 MARITIME .बहरूक NW ST HELENS RD ခ, ၅. ဗီOX 83018 PORTLAND OREGON 9723 1-593-286-9631 08/01/2095

7:58

LEAK TEST REPORT

TANK 1.

END MET

END LEVEL

END WATER

END WATER

20032.7 GAL

DIESEL

0.200 GPH LEAK TEST TEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% 23:59 TEST STARTED TEST STARTED 07/31/2005 LAST DELIVERY 1:06 LAST DELIVERY 07/30/2005 . 61,4% GROSS CAPACITY 12290.4 GAL BEGIN GROSS 12208.3 GAL 70,167 IN 74.673³ REGIN HET BEGIN LEVEL SEGIN TEMP 0,0 GAL BEGIN WATER 0.000 IN BEGIH WATER 7:58 END-TIME-----08/01/2005 END DATE 12287.4 GAL END GROSS

- HOURLY DATE

122**0**5.6 GAL

70.153 IN

. 74.621 F

0.0 GAL

0.000 IN

DEG F BAL TIME 74.665 25275.36 0:58 74,659 25275.31 1:58 74,652 25275.51 2:58 74.645 25275.55 74.639 25275.79 3:58 4:58 74.633.25275.51 74.627 25275.50 74.621 25275.28 5:58 6:58 7:58

0.015-SLOPE 0. BLA GAL/HR SLOPE LOW 0/017 GAL/HR SLOPE HIGH PASSED TEST RESULT SLOPE EQUALS LEAK RATE

> FOSS MARITIME 9070 NW SI HELENG PO

9088 MARITIME 9070 NW ST HELENS RD P. O. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

07/31/2005

23:59

TANK INVENTORY DETAIL

TANK 1

TANK NO. 1 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 12290.4 GAL MET 12208.3 GAL PROD LEVEL 70.167 IN GROSS CAPACITY 61.4% ULLAGE 6748.6 GAL TEMPERATURE 74.673 F WATER LEVEL WATER VOLUME 0.000 IN 0.0 GAL

TANKINO. 2 20032.7 GAL MANJEOLD MAN 1 PRODUCT DIESEL GROSS 13157.0 GAL NET 13067.1 GAL PROD LEVEL 74.307 IN 65.7% GROSS CAPACITY ULLAGE 5874.9 GAL TEMPERATURE 75.022 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL

TANK 3

TANK HO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS 1850.1 GAL MET 1838.7 GAL PROD LEVEL 31.961 IN GROSS CAPACITY 4097.5 GAL-73.589 F ULLAGE TEMPERATURE WATER LEVEL 0.023 IN WATER VOLUME 0.0 GAL

```
90RTLAND OREGON 97231
                                                                                 FOSS MARITIME
                                                                             SOZO NE ST HELENS BO
             1-503-286-0631
                                                                            PORTLAND OREGON 9723
       8879172995
                                                                            1-583-286-8631
           LEAK TEST REPORT
                                                                          08/01/2005
      TANK 2 29832.7 GAL
                                                                                                  2:58
                                                                              LEAK TEST REPORT
                DIESEL
                                                                         TANK Z
                                                                                          6269.9 GAL
     LEAK TEST
     LEAK THRESHOLD 8.100 GPH
                       9.200 GPH
                                                                                 30 WT DIL
     CONFIDENCE LEVEL
     TEST STARTED
                                                                         LEAK TEST
     TEST STARTED 07/31/2005
                           23:59
                                                                         LEAK THRESHOLD 0.100 OPH
                                                                                          6,200 GPH
     LAST DELIVERY
                                                                         CONFIDENCE LEVEL
                                                                        TEST STARTED 23:59
TEST STARTED 87/1/2985
    LAST DELIVERY 97/39/2005
    GROSS CAPACITY
                                                                        LAST DELIVERY 95/19/2805
    BEGIN GROSS
                        -65,7
                   13157.8 GAL
13967.1 GAL
    BEGIN NET
    BEGIN LEVEL
                                                                        GROSS CAPACITY
BEGIN GROSS 1
                     74.387 IN
                                                                                              29.6%
                                                                                      __1850. GAL
                      75.022 E
    BEGIN WATER
                                                                        BEGIN WET
                       B. & GAL
                                                                                        1838.7 GAL
   BEGIN WATER
                                                                       BEGIN LEVEL
                      9.900 IN
                                                                                         31.961 IN
73.589 F
0.0 GAL
   END TIME
                                                                       BEGIN TEMP
                          7:58
   END DATE
                                                                       BEGIN WATER
                    98/91/2005
   END GROSS
                                                                       BEGIN WATER
                   13159.4 GAL
                                                                                          9.023 IN
   END NET
             1
                                                                       END TIME
                  13069.7 GAL
   END LEVEL
                                                                       THO DATE
                    74.319 IN
                                                                                       98/01/2005
   END TEMP
                                                                      END GROSS
                                                                                       1858.2 GAL
1838.7 GAL
                     74.979 F
  END WATER
                                                                      END WET
                      _0∗0 GAL
  END WATER
                                                                      END LEUEL
                                                                                        31.962 IN
                     0.000 IN
                                                                      END TEMP
                                                                                         73.614 E
                                                                      END HATER
         HOURLY DATA
                                                                                          0.0 GAL
                                                                      END WATER
                                                                                         0.023 IN
  TIME
             DEG F BAL
           75.016 25275.36
75.011 25275.31
75.006 25275.51
75.006 25275.55
74.995 25275.79
  ·8:58
                                                                             HOURLY DATA
  1:59
                                                                                0EG F GAL
73.597 1838.74
73.686 1838.78
  2:58
                                                                      TIME
  3:58
                                                                      9:59
1:58
  4:58
  5:58
           74.990 25275.51
74.984 25275.50
                                                                      2:58
                                                                                 73.614 1838.74
  6:58
           74.979 25275.28
  7:58
                                                                     SLOPE
                                                                                  0.923 GAL/HR
9.822 GAL/HR
9.924 GAL/AR
                                                                    SLOPE LOW
                                                                    SLOPE HIGH
SLOPE
              0.015 GAL/HR
SLUPE LOW
SLOPE HIGH
TEST RESULT
                                                                    TEST PESULT
              8.814 m
                                                                                         PASSED
                                                                    SLOPE EQUALS
                                                                                    CALCULATED
                     GALZH
                                                                    LEAK RATE
                     PASSED
SLOPE EQUAL
               CALCULATED
LEAK RATE
```

```
FOSS MARITIME
9030 NW ST HELENS RD
   ୬, O. 30X 83018
 PORTLAND OREGON 97231
      1-503-286-0631
09/01/2005
    LEAK TEST REPORT
                20032.7 GAL
TANK 1
           DIESEL
LEAK TEST
                 9.200 GPH
EAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.0X
                       95.0%
23:59
TEST STARTED
TEST STARTED 08/31/2005
                        18:09
LAST DELJUERY
LAST DELIVERY 08/30/2005
                        43.1%
 GROSS CAPACITY
                  8625.5 SHE
BEGIN GROSS
 BEGIN WET
                  8549.6 GAL
                   52.998 IN
79.320 F
 BEGIN LEVEL
 SEGIN TEMP
 BEGIN WATER
                     0.0-6AL
                    0.000 IN
7:58
 BEGIN WATER
 END TIME
                  99/01/2005
 END DATE
 END GROSS
                  8624.1 GAL
                  8549.0 GAL
52.99: IN
79.123 F
 END WET
 END LEVEL
                      0.0 GAL
 END WATER
                     0.000 IN
 END WATER
         HOURLY DATA
              DEG F GAL
  TIME
             79.294 15970.59
   0:58
             79.268 15970.62
79.243 15970.89
   1:58
   2:58
                      15970.91
   J:58
             79,218
                     15970.46
             79.193
   4:58
             79.170 15970.36
79.146 15970.64
79.123 15970.71
   5:58
   6:58
   7:58
```

```
0.011 GAL CHR
                                                                         SLOPE LOW
                                                                                      0.015 GAL/HR
                                                                         SLOPE HIGH
                                                                          TEST RESULT
                                                                         SLOPE EQUALS CALCULATED
                                                                         LEAK RATE
                                                                               FOSS, MARITIME
                                                                            9030 NW ST HELENS RD
                                                                           ---P. O. 90X 83018
                                                                           PORTLAND DREGON 97231
                    FOSS MARITIME
                                                                               1-503-286-0631
                9036 NW ST HELENS ACO
              PORTLAND OREGON 9723 N
                                                                                                7:59
                                                                          A979172885.
                                                                              LEAK TEST REPORT
            99/01/2005
                                                                                        20032.7 GAL
                LEAK TEST REPORT
                                                                                    DIESEL
           TANK 3
                   6269, 8 GAL
                                                                                           0.200 GPH
                                                                          LEAK TEST
                                                                           EAK THRESHOLD 0.100 GPH
                  30 WT DIL
                                                                          COMPIDENCE LEVEL
TEST STARTED
                                                                                               95.0%
         LEAK TEST
TEAK THRESHOLD 8. 189 GPH
OS BY
                                                                                               23:59
                                                                           TEST-STARTED--08/31/2005
         CONFIDENCE LEVEL
                                                                         LAST DELIVERY 18:09
LAST DELIVERY 08/30/2005
         TEST STARTED
                              95.0%
        TEST STARTED 08/31/2005
LAST DELIVERY 9:01
                                                                           GROSS CAPACITY
                                                                                              37.4%
                              23:59
                                                                                          7487.0 GAL
                                                                           BEGIN GROSS
        LAST DELIVERY 08/26/2005
                                                                                          7420.8 GAL
                                                                           REGIN NET
        GROSS CAPACITY
                                                                                           47.620 IN
                                                                           BEGIN LEVEL
       BEGIN GROSS
                      4967.3 GAL
4919.8 GAL
                                                                                            79,404 F
                                                                           BEGIN TEMP
       BEGIN NET
                                                                                             0.0 GAL
                                                                           BEGIN WATER
                                                                                            9.000 IN
7:59
       REGIN LEVEL
                                                                           BEGIN WATER
       BEGIN TEMP
                                                                           END TIME
                       70.301 IN
      BEGIN WATER
                                                                                           09/01/2005
                                                                           END DATE
                        81.355 F
      BEGIN WATER
                                                                                           7497.1 GAL
7421.7 GAL
                                                                           END GROSS
                         B. ! GAL
      END TIME
                       0.038 IN
                                                                           TIM ONIS
                                                                                            47.620 IN
     END DATE
                                                                           END LEVEL
     END GROSS
                     69/61/2005
                           3:00
                                                                                             79.180 F
                                                                           END TEMP
                    4967.3 GAL
     END NET
                                                                                              9.0 GAL
                                                                           END WATER
    END LEVEL
                    4919, I GAL
                                                                                             0.000 IN
                                                                           END WATER
    END TEMP
                     70.301 IN
    END WATER
                                                                                  HOURLY DATA
                      81.304 F
    END WATER
                      0.1 GAL
                                                                                       DEG F GAL
                     0.038 IN
                                                                            TIME
                                                                                      79.376 15970.45
         HOURLY DATA
                                                                             0:59
                                                                                             15970.67
                                                                                      79.347
                                                                             1:58
                                                                                      79.318 15970.80
   TIME
                                                                             2:58
             DEG F GAL
                                                                                      79.290 15970.97
   0:59
                                                                             3:58
             81.338 4919,11
   1:58
                                                                                             15970.35
                                                                             4:59
                                                                                      79,262
             81.322 4919.17
                                                                                      79.233 15970.61
   2:58
                                                                             5:58
            81.306 4919,16
                                                                                      79,206 15970.64
                                                                             6:58
 SLOPE
                                                                                      79,180 15970.66
                                                                             7:59
SLOPE LOW
SLOPE HIGH
              9.837 GAL
              0.037
                                                                                         0.013 GAL/HR
                                                                            SUDPE
TEST RESULT
             9.078
                                                                            SLOPE LOW
                                                                                          0.011
                    CAL /HR
SLOPE EQUALS GALCULATED
                                                                                          PARTS GAL/HA
                                                                            SLOPE HIGH
                    PASSED
LEAK RATE
                                                                                                PASSED
                                                                             TEST RESULT
                                                                            SLOPE EQUAL CALCULATED
                                                                            LEAK RATE
```

SLOPE

0.013 GAL/HR

FOSS MARITIME 9030 NW ST HELENS PD P. O. 30X 83018 PORTLAND OREGON 9723: 1-503-206-0631

19/01/2005

3:99

LEAK TEST REPORT

TANK 3

6260.8 GAL

30 WT 01L.

LEAK TEST 0,200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95,0% TEST STARTED 23:59 TEST STARTED 09/39/2005 LAST DELIVERY 9:01 LAST DELIVERY 08/26/2005 GROSS CAPACITY 56.5% , Je.JA 3536.3 GAL 3511.7 GAL 52,347 IN 75.279 F SECIN GROSS BEGIN HET SEGIN LEVEL SEGIN TEMP REGIN WATER R.I GAL SEGIN WATER END TIME 0.040 IN --3#*08* 19/01/2005 3536.3 GAL 3511.7 GAL SHO DATE **ย**ิฟอ ดคอรร END NET 52,347 IN END | FUEL END TEMP 75.258 F 0. GAL EMD WATER END WATER 0.040 IN

HOURLY DATA

TIME	ÐEG ≔	5AL
9:58	75, 275	3511,81
1:58	75,269	3511.82
2:58	75.261	3511.82

SLOPE 9.008 SAL/HR
SLOPE LOW 9.007 GAL/HR
SLOPE HIGH 0.00 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RN P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

09/30/2005

23:59

TANK INVENTORY DETAIL

TANK 1

	TANK NO.	1	2003:	2.7	GAL
	MANIFOLD			MÁ	N 1
	PRODUCT			DIE	SEL.
_	- GROSS		-14948	3,4	GAL
	HET		1395	6,9	GAL
	PROD LEVE			. 648	ĮΝ
	GROSS CAR			79	. 1%
	ULLAGE		4980	2.6	GAL
	TEMPERATI	.,		4.31	0 F
	WATER LEU	ŀΕL	<i>i</i> 3 ,	. ଉପ୍ର	ŢΝ
	WATER VOL	UME	(0.0	GAL

TANK 2

TANK NO. 2	20032.7 GAL
MANIFOLD	MAN 1
PRODUCT	DIESEL
GROSS	11702.7 GAL
NET	11625.3 GAL
PROD LEVEL	67.391 IN
GROSS CAPACIT	TY 58.4%
ULLAGE	7328.3 GAL
TEMPERATURE	74.534 F
WATER LEVEL	0.000 IN
WATER VOLUME	0.0 GAL

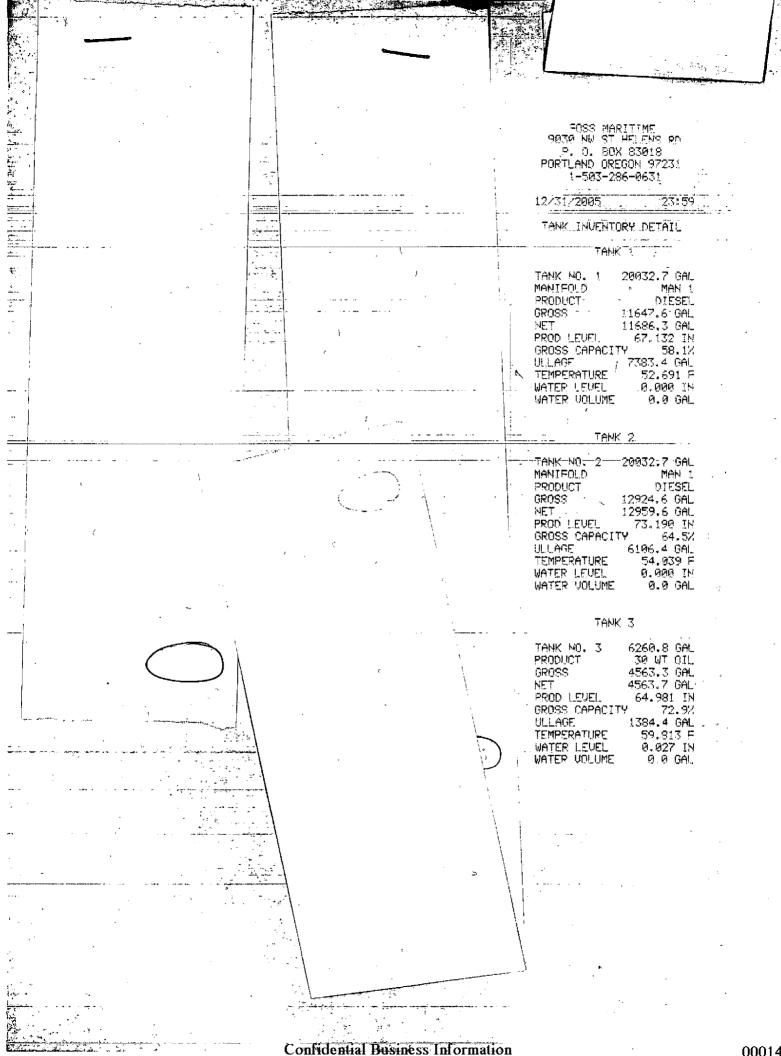
TANK 3

TANK NO. 3	6260.8 GAL
PRODUCT	30 MT OIL
GROSS	3536.3 GAL
MET	3511.7 GAL
PROD LEVEL	52.347 IN
GROSS CAPACITY	7 56.5%
ULLAGE	2411.3 GAL
TEMPERATURE	75.279 F
WATER LEVEL	0.040 IN
WATER VOLUME	0.1 GAL

```
FORS MARITIME
  9070 NU ST HELENS RO
PORTLAND OREGON 9723:
      1-503-286-0631
                          7:59
10/01/2005
     LEAK TEST REPORT
                 29932.7 BAL
THAT
            DIESEL
                   0,200 GPH
LEAK TEST
CAK THRESHOLD 8.100 GP4
COMPIDENCE LEVEL
                         95,82
                          23:59
 TEST STARTED
TEST STAPTED 09/30/2005
AST DELIVERY 18:36
LAST DELIVERY 09/28/2005
 GROSS CAPACITY
                          79.1%
BEGIN GROSS 14948.4 GAL
SEGIN NET 13956.9 GAL
BETT TUE 78.648 IN
                      74.310 F
 arg. Tema
                      9.9 GAL
 BEGIN WATER
 BEGIN WATER
END TIME
END DATE
                      0.000 IN
                          7:58
                    19/01/2005
                   14042,7 BAL
 END GPASS
                   13951.0 GAL
78.617 IN
 EMD MET
 END LEVEL
                       74,267 F
 END TEMP
 END WATER
                       р,0 GAL
                       0.000 IN
  END WATER
         HOURLY DATA
               DEG F GAI.
  TIME
              056 F GAL
74,385 25578,29
74,299 25586,18
74,294 25579,21
74,284 25581,31
74,284 25581,38
74,273 25580,38
   0:59
    1:58
    2:58
    3:58
    4:58
    5:58
6:58
              74.273 25578.84
74.267 25577.48
    7:58
                  0.140 GALZHR
   SLOPE
   SLOPE LOW
                   9.996
                     64L/HR
                   \mathcal{G}_{i}
   SLOPE MIGH
   TEST RESULT
                        INCREASE
                    CALCULATED
   SLOPE FOLIALS
   . FAK RATT
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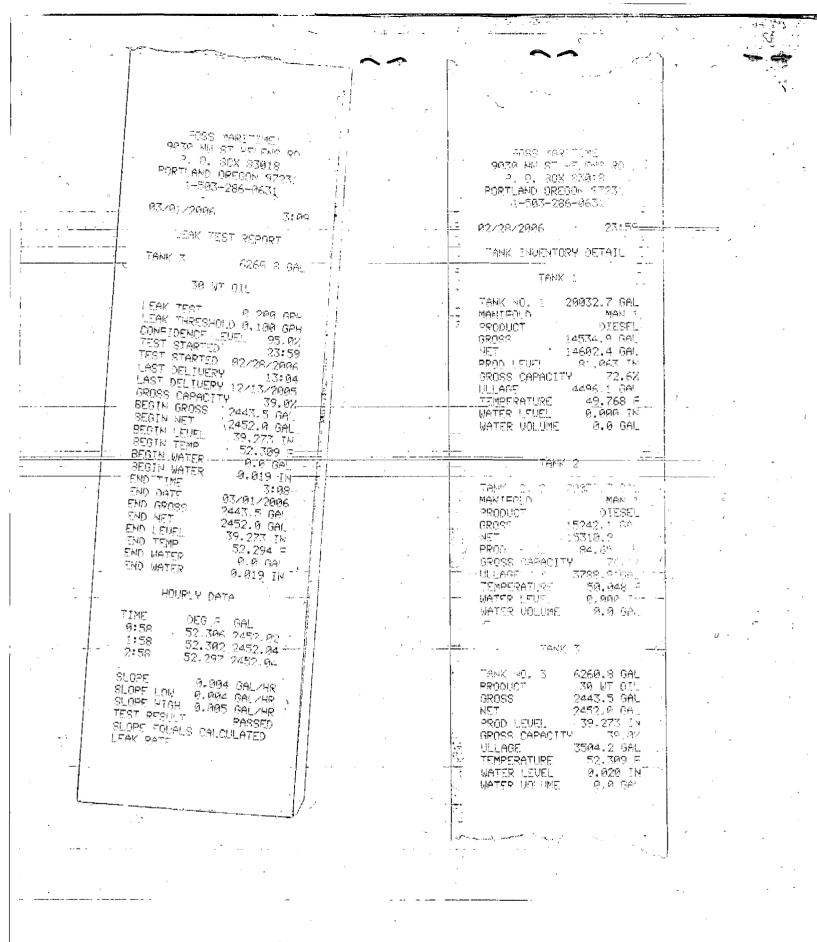
OJAS MARITIME GAZA NI ST HELENG PR FORS MARITIME GAZA MA RT HE EVE RD 2. 0. 80% 83018 5. 0. 90% 83018 PORTI AND OREGON 9723 POPTLAND OREGON 9723: FOSS MARITIME 9030 NW ST HELENS RD 1-503-286-0631 7:00 a. O. 30X 83018 11/01/2005 PORTLAND OREGON 97231 11/01/2005 LEAK TEST REPORT 1-503-286-0631 LIAK TEST REPORT 5268.8 GAL 1973172995 23:59 20032.7 GAL TANY 3 TANK 1 TANK INVENTORY DETAIL 30 NT OIL DIESEL LEAK TEST 8.200 GPH SAK THRESHOLD 8.100 GPH TANK 1 й,290 G^{DL} LEAK TEST TEAK THRESHOLD 9.190 GPH CONFIDENCE LEUF 05, GM TANK NO. 1 20032.7 GAL 95.67 CONFIDENCE LEVEL TEST STARTED TEST STARTED 19/31/2005 TEST STARTED 19/31/2005 MANIFOLD 23:59 · PRODUCT TEST STAPTED 18/31/2983 LAST DELIVERY LAST DELIVERY 19/29/2885 AST DELIVERY GR/26/2005 DIESEL GROSS 10082.0 GAL HET 10063.1 GAL LHO DELIVERY BEFORE 26.9% GROSS CAPACITY 36.9% BEGIN BROSS 2311.6 GAL-BEGIN WET 2381.6 GAL-PROO LEUSE CROSS CAPACITY 50.3% SEGIN GRASS (4082.8 BA). SEGIN WET 10063.1 GAL 59.806 IN 68088 CAPACITY 50.3% 7311.0 091. 2301.6 09L 37.665 TN 68.908 F 0.1 0AL 0.035 IN 3:03 ULLAGE. 8949.0 GAL TEMPERATURE 64.120 F REGIN LEVEL SEGIN TEMP 59,886 IN BEGIN TEMP WATER LEVEL 0.000 IN 64.129 F WATER VOLUME 0.0 GAL BEGTH WATER 0,0 GA_ BEGIN WATER BEGIN WATER 0.900 IN 7:58 BEGIN WATER END TIME 11/91/2005 END TIME TANK 2 11/01/2005 2310-9-0AL END GROSS 19952.4 BAL 19963.9 GAL 2301.6 GAL TANK NO. 2 END GROSS 20032.7 GAL CHIO HET 37.664 TN MANIFOLD EMO MET MAN 1 59.888 1 END LEVEL 68.870 F 0.1 GAL 0.034 IN END LEVEL PRODUCT DIESEL 64.235 ^c GROSS EMD LEMB 9228.5 GAL END WATER 0.0 GAL NET END WATER 9201.2 GAL END WATER a.000 IN PROD LEURL 55,785 IN END WATER GROSS CAPACITY > 46.0% HOURLY DATA HOURLY DATA ULLAGE 9810.5 GAL DEG F GAL TEMPERATURE 68,891 2301.68 68,876 2301.69 68,871 2301.72 64.600 F DEG F GAL WATER LEVEL WATER VOLUME TIME. 64.136 19264.18 64.150 19264.06 0.000 IN TIME a:58 9.0 GAL ดี: 58 1:58 1:58 64.164 19263.98 2:58 **9:58** 9.818 GAL/HR 64,179 19264.19 TANK 3 0. 900 001 UR 011 001 /HR 3:58 19264.25 SLOPE 64, 193 SCODE FOR 64.207 19264.20 64.207 19264.20 64.222 19264.35 64.235 19264.31 4:58 SLOPE HIGH TEST RESULT (TANK NO. 3 6260.8 GAL 5:58 PASSED) PRODUCT 30 WT OIL 6:58 SLOPE EQUALS <u>cel</u>culated GROSS. 2310.9 GAL 7:58 MET 2301.6 GAL LEAK PATE -0.003 GAL PROD LEVEL SLOPE 37.664 IN SLOPE LOW -0.005 GALAR GROSS CAPACITY SLOPE HIGH -0 002 GALZHR TEST RESULT PASSED 36.9% ULLAGE 3636.7 GAL PASSED TEMPERATURE 68.908 F SLOPE FOUNTS CALCULATED WATER LEVEL 0.035 IN WATER VOLUME LEAK RATE 0.1 GAL FOSS MARITIME 9030 NW ST HELENS RD 5. 0. 30X 83018 PORTLAND OREGON 97231

1-503-286-0631



ವೆಸ್ಟರ್ ೧೯ `∀•್) ೧′ ೫೯೮೨ ಎರಟ್\$ FOSS MARITIME 9030 NW ST HELENS RO PORTLAND OREGON 9723: 1-503-286-9631 11/30/2005 23:59 TANK INVENTORY DETAIL TANK 1 TANK NO. 1 MANIFOLD 20032.7 GAL PRODUCT MAN ! MAN (DIESEL 5910.8 GAL 5926.7 GAL 39.990 IN IY 29.5X 13120.7 GAL 54 GAZ E GROSS MET PROD LEVEL GROSS CAPACITY ULLAGE TEMPERATURE WATER LEVEL 54.067 F 9.000 IN WATER UOLUME 0.0 GAL -TANK 2 TANK NO. 2 MANIFOLD 20032.7 GAL MAN 1 DIESEL 2586.7 GAL 2593.6 GAL 22.232 IN TY 12.9% 16444.3 GAL 54.180 F A.000 IN PRODUCT MAN 1 GROSS HET PROD LEVEL GROSS CAPACITY TEMPERATURE WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL TANK 3 TANK NO. 3 PRODUCT 6260.8 GAL 30 UT OIL GROSS NET

TANK NO. 3 6260.8 GAL PRODUCT 3A WT OIL GROSS 1122.2 GAL 1121.7 GAL GROSS CAPACITY 17.9% ULLAGE 4825.5 GAL GATER LEVEL WATER UOLUME 9.1 GAL



9679 BU OF URG	FOSS MARITIME	and the second	
SUZU WIN ST HELENS BU	"""	*	• •
P. O. BOX 83018	abide My Significate BD		1
PORTLAND OREGON 9723:	2. 0. 80x 830;8		•
1-503-286-0631	PORTLAND OREGON 9723:		
	1-503-286-0631		
0220120002		•	GOSS MARITIME
92/91/2006 3:09	00 401 40004		OGTO MU OT UTIENS MU
	02/01/2006 14:48		P. O. BOX 83018
LEAK TEST REPORT		•	9. U. 1000 000 9773"
13/21 (3/3)	LEAK TEST REPORT	•	PORTLAND OREGON 9723:
TANK 7	The second of th	i	1-503-286-0631
TANK 3 6260.8 GAL	TARRY & AMERICA		
	TANK 1 20032.7 GAL		23:59
30 WT OIL	• • • • • • • • • • • • • • • • • • • •		91/31/2006 23:59
F TWO PER CONTRACTOR	DIESEL		
I Make Trans	DIESEL LSAK TEST - 0,100 CPH LEAK THRESHOLD 0,050 CPH COMFIDENCE LEUFI - 95 0V		TANK INDENTORY DETAIL
LEGK TEST 70-200 GPH	I Prove the second	·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Liter (EST - R.100 CPL		TALU/ 1
CONSTDENCE LEVEL 95.0%	LEAK THRESHOLD A ASA ADD		HMK
TEST STARTED 23:59	CONFIDENCE LEVEL 95.00		- 001
1581 STARTED 23:59	TOTAL STREET,		$= c_1 \cup c_2 \in C_1 \cup C_2 \cup C_3 \subseteq C_4 \cup C_$
TEST STARTED 01/31/2006		- u	TANK NU. 1 12111 MAN 1
- 場合させ ONEC (UERRY - イマ・ウォ・	TEST STAPTED 82/01/2006		MANIFULL STEEDER
LAST DELIVERY 12/13/2005	LAST DELIVERY 4:58		SKULUVI amod a cal
	LAST DELIVERY 02/01/2006		22 20 C
GROSS CAPACITY 53.5%	CLOOK STATEMENT KINN IN SURE	,	GRUSS 8357.6 GAL
MEGIN GROSS KRAD T DAI	GROSS CAPACITY 64.6%	Ì	NE STRAGE IN
	8501N GROSS 12934.7 GAL	•	PROD LEVEL 41.6% GROSS CAPACITY 41.6%
	BEGIN NET 12980.3 GAL		GROSS CAPACITY
		:	
	BEGIN LEUFL 73 239 IN		ULLAGE 52.414 F
BEGIN WATER Q Q GA	35GIN TEMP 52.226 F		
	BEGIN WATER Q.G.GAL		WATER LEVEL 9.900 IN
			WATER COLUME 8.8 GAL
END TIME 3:08	BEGIN WATER 0.000 IN	•	Wall Company
END DATE GOZGEZOGE	END TIME 14:48		
	END GROSS 12934 S GAL	0	TANK 2
	the same of the sa		The second secon
END LEVEL 50, 104 IN			TANK NO. 2 20032.7 GAL
END 75MP 54,993 F	END LEUEL 73.239 IN	4.	TANK NO. 2 20032.7 575
	SMD TEMP 52.220 F	t a	TANK NU. 2 2000 MAN 1 MANIFOLD DIESEL
		•	
END WATER 0.023 IN			
!	END WATER 0.000 IN		58055 516AL
HOURLY DATA		ŕ	MP 1 5== 751
CONTRACT DIVIN	HOURLY DATA		
TIME DEG F GAL		•	AADACTIV 601
	The way (s. s. sham)	•	
9:58 55,006 3356.34	TIME 1 DEG F GAL	•	
1:58 54.977 3356.39	7:48 52.218 23881.02		TEMPERATURE 53.166 F WATER LEVEL 0.900 IN WATER LEVEL 0.0 GAL
	8:47 52.214 23861.08		
2:58 54.996 3356.35	9:48 50 017 07024 14		WATER VOLUME 0.0 GAL
		•	MU i Fix A
SLOPF 0.018 GAL/HR	19:48 - 52.221 23861.15		
SLOPE LOW 0,016 CALZUR	11:47 52.219 23861.07		
	12:48 52.219.23961.14		TANK 3
SLOPE HIGH B 019 GAL HR	**************************************		
TEST RESULT (PASSED	***		TANK NO 3 6268.8 GAL-
MUNICIPAL PUBLISHED STORE	14:48 52,220 23860,93		
EAK RATE	The second control of		
200 00 00 00 00 00 00 00 00 00 00 00 00	SLOPE 9.006 GALZHD		
1	SLOPE LOW 0.005 GAL/HR		Mr :
	SLOPE HIGH 8,892 GAT HR		
	T##	, .	THE SAN ARDOCT FOR A CONTROL
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- · · · · · · · · · · · · · · · · · · ·	LEAK RATE		7 E PUET 500 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
i	***	. 3	MB144 FEAF
S	• • • •		WATER UGLUME 8.8 GHL
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537 1492 28003.5

9058 THELENS RO
9038 NN ST HELENS RO
9038 NN ST HELENS RO
9. O. BOX RISE19
P. O. BOX RISE19
PORTLAND OREGON 9773 1-503-286-0631 92/91/2996 LEAK TEST REPORT 20037.7 GAL TANK 2 OIESEL A.100 GPH LEAK TEST A. 100 GPH
LEAK TEST A. 100 GPH
LEAK THRESHOLD 9.050 GPH
CONFIDENCE LEVEL 6:48
CONFIDENCE LEVEL 6:48
TEST STARTED 82/01/2006
TEST STARTED 82/01/2006
LAST DELTUERY 92/01/2006
LAST DELTUERY 92/01/2006
LAST DELTUERY GP/01/2006
GROSS CAPACITY
GROSS CAPACITY
GROSS CAPACITY
GROSS CAPACITY 19844.2 GAL 19889.6 GAL 63.365 IN BEOIN OBUSE BEOTH TEMP 52.612 G GAL 9.000 IN BEGIN WATER BEGTO WATER 02/01/2006 END OATE 0470172000 1884.5 GAL 1888.6 GAL 1888.6 TN 63.366 TN 52.663 F GRUSS EMD GMISS
END HET
END LEUFL
END LEUFL
END HATER
END WATER
END WATER EMD 0.0 GAL 0.000 IN HOURLY DATA DEG F GAL 52.608 23861.20 52.614 23861.11 52.618 23861.11 52.611 23861.19 52.611 23861.19 TIME 7:48 8.43 52.611 23861.19 52.626 23861.85 52.626 23861.84 52.638 23861.14 52.648 23861.14 52.663 23861.28 9:49 19:48 11:48 12:48 13:48 9.006 BALZHR 14:48 SLOPE LOW B. BOX SLOPE HTGH B. PAR g 905 SLUPE SLUPE HIGH B. BUT DAL AT PASSE TEST RESULT CALCULATED BLODE EDUALS CALCULATED TEAK WITE

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9058 MA
9050 NM 8
   P. O.
PORTLAND
                      .3:08
  LLEAK TEST REPORT
                                                                          FOSS MARITIME
9030 NW ST HELENS RD
TANK 3 6260.8 DAL
                                                                           P. O. BOX 83018
                                                                         PORTLAND OREGON 97231
       28 MI DIF
                                                                           1-503-286-9631
TEAK TEST 0.200 OPH
LEAK THRESHOLD 0.100 OPH
CONFIDENCE LEVEL 95.8Y
                                                                         94/39/2996
                                                                          TANK INDENTORY DETAIL
 TEST STARTED
 TEST STARTED 04/30/2006
 LAST DELIVERY _____ 10:19
                                                                                  TANK 1
 LAST DELIVERY 03/30/2006
  GROSS CAPACITY 68.9%
                                                                                         20032.7 GAL
                                                                          TANK HO. 1
                 4314.2 BAL
4313.3 BAL
                                                                                                 MAN 1
  BEGEN GROSS
                                                                          MANIFOLD
                                                                                               DIESEL
  grain WET
                                                                          PRODUCT
                                                                                           9227.5 GAL
                    61.829 IN
  BEGIN LEUEL
                     40.494 F
0.0 GAL
                                                                          GROSS
                                                                                           9230.1 GAL
55.817 IN
  SEGIN TEMP
SEGIN WATER
                                                                           HET
                                                                          PROD LEVEL
GROSS CAPACITY
                     a a14 IN
3:08
                                                                                               46.1%
   REGIN WATER
                                                                                           9803.6 GAL
   END_TIME_
END DATE
                                                                           ULLAGE.
                    05/01/2006
4314.2 GAL
4313.2 GAL
61.829 TN
                                                                                               59.382 F
                                                                           TEMPERATURE
                                                                                               0.000 IN
                                                                           WATER LEVEL
    END GROSS
                                                                                                0.0 GAL
                                                                           WATER VOLUME
    END NET
    END TEMP
                       _60.503 E
                     0.0 GAL
0.014 IN
    END WATER
                                                                                       TANK 2. .
     END WATER
                                                                                            20032.7 GAL
                                                                            TANK NO. 2
           HOURLY DATA .
                                                                             MANIFOLD
                                                                                                   DIESEL
                 DEG F GAL
60.497 4313.30
60.500 4313.33
60.507 4313.34
                                                                             PRODUCT
                                                                                             8653.7 GAL
8653.5 GAL
                                                                             GROSS
      TIME
       ผะ58
                                                                             NET
                                                                                             53.126 IN
       1:58
                                                                             PROD LEUFL
                                                                                                     43.2%
                                                                              GROSS CAPACITY
      SLOPE -0.000 GAL/HR
SLOPE LOW -0.001 GAL/HR
SLOPE HIGH 0.001 GAL/HR
TEST RESULT
SLOPE FOUND
       2:58
                                                                                           10378.4 GAL
                                                                                              59.799 F
                                                                              ULLAGE
                                                                              TEMPERATURE
                                                                                                  0.000 IN
                                                                              WATER LEVEL
                                                                                                   0.0 GAL
                                                                              WATER VOLUME
                                          18
       SLOPE EQUALS CALCULATED
       LEAK RATE
                                                                                         TANK 3
                                                                                                6260.8 GAL
                                                                               TANK NO. 3
                                                                                                30 UT OIL
               SLOPE 0.088 GAL/HR
SLOPE LOW 0.087 GAL/HR
SLOPE HIGH 0.090 GAL/HR
SLOPE HIGH 0.090 GAL/HR
TEST RESULT
                                                                               PRODUCT
                                                                                                4314.3 GAL
4313.3 GAL
                                                                                GROSS
                                                                                                61.829 IN
                                                                                NET
                                                                                PROD LEVEL
                                                                                                      68,97
                                                                                GROSS CAPACITY
                                                                                               1633.5 GAL
                 SLOPE EQUALS CALCULATED
                                                                                ULLAGE
                                                                                                  60.494 F
                                                                                 TEMPERATURE
                                                                                                   0.014 IN
                 LEAK RATE
                                                                                 WATER LEVEL
                                                                                                      g,o GAL
                                                                                 WATER UDLIME
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FOSS MARITIME 9030 NW ST. MELENS RD P. O. 90X 83018 PORTLAND OREGON 9723: 1-503-296-0631

A5781728A6

7:59

HEAK TEST REPORT

TANK 1

20032.7 GAL

DIESEL

LEAK TEST 8.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL TEST STARTED 23:59 TEST STARTED 04/39/2006 LAST DELIVERY 1:29 LAST DELIVERY 04/78/2006 46.1% GROSS CAPACITY 9227.5 GAL 9230.1 GAL 55.817 IN BEGIN GROSS BEGIN NET BEGIN LEVEL -SEGIN TEMP 59.382 F BEGIM WATER 0.0 GAL 0.000 IN 7:58 SEGIN WATER END TIME 95/01/2006 9227.6 GAL 9230.2 GAL : 55.818 IN END DATE END GROSS END NET END LEVEL END TEMP 59.363 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

TIME 0:58 1:58 2:58 3:58 4:58 5:58 6:58 7:58	0E6 F 59.380 59.377 59.374 59.369 59.367 59.365 59.363	GAL. 17883.57 17883.65 17883.66 17883.98 17883.99 17884.01 17884.12 17884.13
SLOPE SLOPE LO SLOPE HI TEST RES SLOPE EQ LEAK RAT	GH 0.09 SULT SUALS CAL	37 GAL/HR 90 GAL/HR PASSED

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FOSS MARITIME
9030 NW ST HELEMS RO
  P. O. BOX 83018
PORTLAND OREGON 97231
      1-503-286-0631
 95/91/2096 7:59
- - LEAK TEST_REPORT . .
                     20032.7 GAL
  TANK 2
               DIESEL
                      0.200 GPH
  LEAK TEST 0.200 GPH
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.04
   TEST STARTED
  TEST STARTED 04/30/2006
LAST DELIVERY 1:29
   LAST DELIVERY 04/28/2006
   GROSS CAPACITY 43.2%
   BEGIN GROSS 8652,8 GAL
BEGIN NET 8653.5 GAL
BEGIN LEUEL 53,126 IN
BEGIN TEMP 59,799 F
   REGIN TEMP
   BEGIN WATER
                            0.9 GAL
                           <del>0.000 IN</del>
    BEGIN WATER
   -END-TIME-
                        05/01/2006
    END DATE
                        8653.1 GAL
8653.9 GAL
53.127 JM
59.792 F
    END GROSS
    END NET
    END LEVEL
    END TEMP
                            ମ.ମ GAL
    END WATER
                            0.900 IN
    END WATER
             HOURLY DATA
                  0EG F GAL
59.798 17883.57
59.798 17883.65
     TIME
      0:58
      1:58
                  59-797-17883.66
                  59.795 17883.98
       3:58
                  59.794 17883,99
59.793 17884.01
       4:58
      5:58
6:58
                   59.793 17884.12
59.792 17884.13
       7:58
                       0.088-GALZHR
     SUOPE
     SLOPE LOW 0.087 GAL/HR
SLOPE HIGH 0.090 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
      LEAK_ BATE
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73.530 TR	See also	
II -END-LEUF! 88.333 F		
I FIND TEMP 0.1 GAL		
END TEMP 91 BAL		
END WATER 0.835 IN	3	•
I PAD MULES		
HOURLY DATA		FOSS MARITIME
HOUSE A CO. S.	•	SHOW MY SI HELEMA DU
- nAl		≝. U. SOX S⊼Ats
DEG E GAL 25		PORTLAND OREGON 97231
	•	1-503-286-0631
91.58 91.174 91.58 81.174 5151.25		. 202 TOO_827!
91.00 81.174 0131.25 - 1 7.00 81.179 5151.35		03/31/2006 23:59
3:00 81.170 240 3:00 81.975 5151.35	· · · · · · · · · · · · · · · · · · ·	apkotnisaae 52:26
3:58 80,957 7151 40 3:58 80.745 5151 43	•	- a. a
4:58 80.740 5151.43 4:58 80.541 5151.56		TANK INVENTORY DETAIL
5:58 5:58 5:55 5:55 5:55 5:55 5:55 5:55		
원 구나면이 말까요?	•	TANK :
9.956 BAL/HR	`	100 100 100
8.855		TANK NO. 1 20032.7 par
SLOPE ON A BEE GAL HR		MALITONIA B
SLOPE LOW A BET GALLYR SLOPE LIGH 9 457 GALLYR	ą.	MANIFOLD MAN 1
SLOPE HIGH PASSED)		PRODUCT DIESEL
SLOPE RESULT PASSED TEST RESULT CALCULATED	-	GROSS 14229.6.GAL
	•	NET 14265.1 GAL
LEAK RATE	, ,	PROD LEUEL 79.543 IN
F.T.		GROSS CAPACITY 71.0%
\	ļ	
• • • • • • • • • • • • • • • • • • •		TEMPERATURE 54.510 F .
30		WATER LEVEL 0.000 IN
	,	WATER VOLUME 0.0 GAL
5		
1		*
1 2i		TANK 2
<u> </u>		TANK 2
E TME		· · · · · · · · · · · · · · · · · · ·
Enss MARITIME PD		TANK NO. 2 20032.7 GAL
6 FOSS MARITIME PD		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1
neta NV 2 Care		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL
9670 NV 30X 83018		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL
9670 NV 30X 83018		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL
9670 NV 83018 3. 0. 80X 83018 9. 0. 97231 PORTLAND OREGON 97231 1-503-286-8631		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL
9630 NV 83018 9. 0. 80X 83018 97231 PORTLAND OREGON 97231 1-503-286-8631		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEVEL 79.066 IN
9670 NN 50X 83018 2. 0. 80X 83018 97231 PORTLAND OREGON 97231 1-503-286-0631 7:59		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6K
9670 NN 50X 83018 2. 0. 80X 83018 97231 PORTLAND OREGON 97231 1-503-286-0631 7:59		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEVEL 79.066 IN GROSS CAPACITY 70.6K ULLAGE 4897.7 GAL
9870 NV 83018 3. 0. 80% 83018 97231 PORTLAND OREGON 97231 1-503-286-8631 7:59 84/01/2006 FAK TEST REPORT		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6K ULLAGE 4897.7 GAL TEMPERATURE 55.356 F
9870 NV 83018 3. 0. 80% 83018 97231 PORTLAND OREGON 97231 1-503-286-8631 7:59 84/01/2006 FAK TEST REPORT		TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN
9878 NV 83018 2. 0. 80% 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 94/81/2886 1_EAK TEST REPORT		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6K ULLAGE 4897.7 GAL TEMPERATURE 55.356 F
9878 NN 83018 2. 0. 80% 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 84/81/2886 1_EAK TEST REPORT TANK 1 28832.7 GAL		TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN
9878 NN 83018 2. 0. 80% 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 84/81/2886 1_EAK TEST REPORT TANK 1 28832.7 GAL		TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN
9636 NV 83018 9 0 80X 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 94/81/2006 LEAK TEST REPORT 1-20632-7 GAL TANK 1 DIESEL		TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN
9878 NN 83018 2. 0. 80K 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 84/81/2886 1_EAK TEST REPORT TANK 1 28832.7 GAL DIESEL		TANK HO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEVEL 79.066 IN GROSS 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER VOLUME 9.0 GAL
9878 NN 83018 2. 0. 80K 83018 PORTLAND OREGON 97231 1-593-286-8631 7:59 84/81/2886 1_EAK TEST REPORT TANK 1 28832.7 GAL DIESEL		TANK MO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL
9870 NV 83018 2. 0. 80% 83018 2. 0. 80% 83018 3. 0. 80% 83018		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL TANK 3 TANK NO. 3 6260.8 GAL
9878 NV 83018 9. 0. 80% 83018 90RTLAND OREGON 97231 1-503-286-8631 7:59 84/81/2886 LEAK TEST REPORT TANK! 01ESEL LEAK TEST 0.298 GPH LEAK TEST LEAK TEST 0.298 GPH LEAK THRESHOLD 8.188 GPH LEAK THRESHOLD 8.189 GPH LEAK THRESHOLD 8.189 GPH		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER VOLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL
9878 NV 83018 2. 0. 80% 83018 2. 0. 80% 83018 3. 0. 80% 83018 3. 0. 80% 83018 3. 7:59 84/81/2886 7:59 84/81/2886 LEAK TEST REPORT 1. 28832.7 GAL TANK 1 0 IESEL LEAK TEST 8.298 GPH LEAK THRESHOLD 8.108 GPH LEAK THRESHOLD 8.108 GPH CONFIDENCE LEVEL 23:59 CONFIDENCE LEVEL 23:59		TANK NO. 2 20032.7 GAL MANTEDLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER VOLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL
9878 NV 83018 2. 0. 80% 83018 2. 0. 80% 83018 3. 0. 80% 83018 3. 0. 80% 83018 3. 7:59 84/81/2886 1-583-286-8631 7:59 84/81/2886 1-EAK TEST REPORT 28832.7 GAL TANK 1 01ESEL 1. 286 GPH 1. 28		TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER UOLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.9 GAL
9878 NV 83018 2. 0. 80% 83018 2. 0. 80% 83018 3. 0. 80% 83018 3. 0. 80% 83018 3. 7:59 84/81/2886 1-583-286-8631 7:59 84/81/2886 1-EAK TEST REPORT 28832.7 GAL TANK 1 01ESEL 1. 286 GPH 1. 28		TANK NO. 2 20032.7 GAL MANTEDLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEVEL 79.066 IN GROSS CAPACITY 70.6% ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER VOLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT CIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEVEL 73.568 IN
9878 NV 53018 2 0. 80% 83018 2 0. 80% 83018 2 07231 2-503-286-8631 7:59 04/01/2006 1EAK TEST REPORT 1 20032.7 GAL 1 20032.7 GAL 20032.7 GAL 2004 GPH 1 2004 GPH 1 2005 GPH 1 2006 GPH		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6K ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.000 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.1X
9878 NV 53018 2 0. 80% 83018 2 0. 80% 83018 2 07231 2-503-286-8631 7:59 04/01/2006 1EAK TEST REPORT 1 20032.7 GAL 1 20032.7 GAL 20032.7 GAL 2004 GPH 1 2004 GPH 1 2005 GPH 1 2006 GPH		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.000 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL
9878 NV 5.018 p. 0. 80% 83018		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.6K ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEVEL 9.000 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEVEL 73.568 IN GROSS CAPACITY 83.1% ULLAGE 745.4 GAL
9878 NV 83018 p. 0. 80% 83018 pORTLAND OREGON 97231 1-593-286-8631 7:59 84/81/2886 LEAK TEST REPORT TANK 1 28832.7 GAL DIESEL LEAK TEST 0.296 GPH LEAK THRESHOLD 8.109 GPH LEAK THRESHOLD 8.109 GPH LEAK THRESHOLD 9.5.8% CONFIDENCE LEVEL 23:59 TEST STARTED 83/31/2866 TEST STARTED 83/31/2866 TEST STARTED 83/31/2866 LAST DELIVERY 83/28/2866 LAST DELIVERY 83/28/28/28/28/28/28/28/28/28/28/28/28/28/		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.000 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL TEMPERATURE 81.619 F
9878 NV 53018 5. 0. 80% 83018 5. 0. 80% 83018 97231 1-503-286-0631 7:59 04/01/2006 7:59 1EAK TEST REPORT 1. 20032.7 GAL 1. 20032.7 GAL 20032.7 GAL 20032.7 GAL 20032.7 GAL 2005 GPH 1. 200 GP		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.009 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL TEMPERATURE 81.619 F WATER LEUEL 9.036 IN
9878 NV 83018 9. 0. 80% 83018 90871AND OREGON 97231 1-503-286-8631 7:59 84/81/2886 1EAK TEST REPORT 1EAK TEST REPORT 1 28832.7 GAL 1 28832.7 GAL 1 28832.7 GAL 2 2986 GPH 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.000 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL TEMPERATURE 81.619 F
9878 NV 83018 9. 0. 80% 83018 90871AND OREGON 97231 1-503-286-8631 7:59 84/81/2886 1EAK TEST REPORT 1EAK TEST REPORT 1 28832.7 GAL 1 28832.7 GAL 1 28832.7 GAL 2 2986 GPH 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.009 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL TEMPERATURE 81.619 F WATER LEUEL 9.036 IN
9878 NV 53018 5. 0. 80% 83018 5. 0. 80% 83018 97231 1-503-286-0631 7:59 04/01/2006 7:59 1EAK TEST REPORT 1. 20032.7 GAL 1. 20032.7 GAL 20032.7 GAL 20032.7 GAL 20032.7 GAL 2005 GPH 1. 200 GP		TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 14133.3 GAL NET 14163.1 GAL PROD LEUEL 79.066 IN GROSS CAPACITY 70.60 ULLAGE 4897.7 GAL TEMPERATURE 55.356 F WATER LEUEL 9.009 IN WATER UDLUME 9.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 5202.3 GAL NET 5151.0 GAL PROD LEUEL 73.568 IN GROSS CAPACITY 83.12 ULLAGE 745.4 GAL TEMPERATURE 81.619 F WATER LEUEL 9.036 IN

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FOSS MARITIME
   SAZA NU ST HELENS PD
      P. O. SOX 83018
  PORTLAND OREGON 97231
       1-593-286-0631
 947817299A
                        7:59
     LEAK TEST REPORT
 TANK :
               20032.7 GAL
           DIESEL
 LEAK TEST
                0.200 GPH
LEAK THRESHOLD 0.190 GPH
CONFIDENCE LEVEL 95.0%
 TEST STARTED
                      23:59
TEST STARTED 03/31/2006
LAST DELIVERY 21:02
 LAST DELIVERY 03/28/2006
 GROSS CAPACITY
                     71.0%
BEGIN GROSS
              14229.6 GAL
 BEGIN NET
               14265.1 GAL
79.543 IN
BEGIN LEVEL
SEGIN TEMP -
                  -54.510 F
BEGIN WATER
                   0.0 GA
BEGIN WATER
                  0.000 IN
7:58
END TIME
END DATE
                94/91/2006
               14229.6 GAL
14265.2 GAL
END GROSS
END NET
END LEVEL
                 79,543 (N
END TEMP
                   54,476 F
END WATER
                   0.0 GAL
END WATER
                  0.000 IN
       HOURLY DATA
TIME
           DEG F GAL
 នេះ ភិន
          54,505 28428.31
 1:58
          54.500 28428.36
 3:00
          54,500 28428,39
          54.494 28428.38
 3:58
 4:58
          54,489 28428,53
          54.484 28428.44
54.480 28428.45
 5:58
 6158
 7:58
          54.476 28428.43
SLOPE
             0.009<u>GAL</u>/HR
SLOPE LOW
             0,008 GALZHR
SLOPE HIGH
             8.010 GALZHR
TEST RESULT
                    PASSED
SLOPE EQUALS CALCULATE
LEAK RATE
```

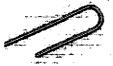
14 15 1

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FOSS MARITIME
      9030 NU ST HELENSLAD
       - P. O. 80X-83018-
     PORTLAND OREGON 97231
         1-503-286-0631
    04/01/2006
                          7:59
        LEAK TEST REPORT
   TANK 2
                  20032,7 GAL
             DIESEL
   LEAK TEST 0.200 GPH
   LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEVEL 95.0%
   TEST STARTED
                   --- 23:59
   TEST STARTED 03/31/2006
  LAST DELIVERY 21:02
LAST DELIVERY 03/28/2006
  GROSS CAPACITY
                      79.6%
  BEGIN GROSS 14133.3 GAL
  BEGIN HET
                 14163.1 GAL
  BEGIN LEVEL
                   79.066 IN
  BEGIN TEMP
                    55.356 F
  BEGIN WATER
                     0.0 GAL
  BEGIN WATER
END TIME
                    0.000 IN
  EMD DATE
                 94/91/2906
  END GROSS
                14133.5 GAL
14163.2 GAL
  FMD NET
 END LEVEL
                  79.067 IN
  END TEMP
                   55.378 F
 END WATER
                    8.8 GAL
 END WATER
                   0.000 IN
        HOURLY DATA
 TIME
            DEG F GAL
  0:58
           55.359 28428.31
55.361 28428.36
  1:58
  3:00
           55.361 28428.39
  3:58
           55.365 28428.38
  4:58
           55.367 28428.53
  5:58
           55.371 28428.44
  6:58
          55.374 28428,45
  7:58
          55.378 28428.43
SLOPE
             0.009 GAL/HR
SLOPE LOW
             0.008 GALTHR
SLOPE HIGH B. PIB GAL HR
TEST RESULT
                    PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
```

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SALE MIL ST HELENS ED
    o. 0. 90x 83018
PORTLAND OREGON 97231
1-503-286-0631
047947200E
       LEAK TEST REPORT
                         6260.9 OAL
 TANK 3
             38 ML CIT
                            0.200 GPH
  LEAK TEST
   LEHR THRESHOLD 8,198 GPH
LEAK THRESHOLD 8,198 GPH
CONFIDENCE LEVE! 95.8%
                                    95.07
23:59
    TEST STARTED
    TEST-STARTED . 03/31/2006
    TEST STARFED 10:19
LAST DELIVERY 93/38/2886
LAST DELIVERY 93/38/2886
93.14
GROSS CAPACITY 5000 7 84
      BEGIN GROSS
                              5151.1.64
      BEGIN VET
BEGIN LEVEL
BEGIN TEMP
BEGIN WATER
                                73.548 7
                                  81.620 =
0.1 GAL
0.836 IN
6:58
        REGIN WATER
        END TIME
                                 04/01/2006
                                 5199. K GAL
5151.5 GAL
73.539 TK
         END DATE
         END GROSS
END HET
          END LEVE
                                     80.333 F
         - END TEMP
                                       9.1 GAL
          END WATER
                                      8.035 IN
           END WATER
                      HOURLY DATA
                             DEB F GAL
81.394 5151.25
81.174 5151.24
81.179 5151.25
80.957 5151.35
80.745 5151.40
80.541 5151.43
80.333 5151.56
             TIME
               g:58
                1:58
                ୟ: ମମ
                5:58
                 4:58
                 5:58
                 6:58
                                    9.856 GAL/HR
9.855 GAL/HR
8.857 GAL/HR
                SLOPE
SLOPE LOW
SLOPE HIGH
TEST RESULT
                                                PASSED
                  SLOPE EQUAL CALCULATED
                  LEAK RATE
```

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SOSS MARITIME
9030 NW ST HELENS RD
                                                           P, O. 80% 83018
                                                         PORTLAND OREGON 97231
                                                          1-503-286-0631
                                                                             23:59
                                                        ~p4/39/2006
           EUSS WARITIME
       PARA NU ST HELENS RO
                                                          TANK INVENTORY DETAIL
         °. 0. 90% 93018
      PORTLAND OREGON 97231
                                                                TANK 1
          1-503-286-0631
                                                         TANK NO. 1 20032.7 GAL
     9579172996
                                                         MANIFOLD
                           7:59
                                                                              DIESEL
                                                          PRODUCT
                                                                         9227.5 GAL
         LEAK TEST REPORT
                                                          GROSS
                                                                         9230.1 GAL
                                                          NET
                                                                         55.817 IN
    TANK 1
                  20032.7 GAL
                                                          PROD LEVEL
                                                                               46.1%
                                                          GROSS CAPACITY
                                                                          9803.6 GAL
              DIESEL
                                                          ULLAGE
                                                                            59.382 F
                                                           TEMPERATURE
                                                                            0.000 IN
    LEAK TEST
                    9.200 ден
                                                          WATER LEVEL
   LEAK THRESHOLD 0.100 GPH
CONSIDENCE LEVEL 95.0%
TEST STARTED 23:59
                                                                              9.0 GAL
                                                           WATER UOLUME
   TEST STARTED 04/30/2006
LAST DELIVERY 1:29
                                                                     TANK 2
   LAST DELIVERY 04/28/2006
                                                                          20032.7 GAL
                                                            TANK NO. 2
   GROSS CAPACITY
                                                                                MAN 1
                                                            MANTFOLD
                     46.12
                                                                               DIESEL
   BEGIN GROSS
                9227.5 GAL
9230.1 GAL
                                                            PRODUCT
                                                                           8653.5 GAL
   REGIN NET
                                                            GROSS
   BEGIN LEVEL
                   55.817 IN
                                                            NET
   BEGIN TEMP
                                                                             53.126 IN
                                                            PROD LEUFL
                    59.382 ⊨
                                                                                43.2%
                                                             GROSS CAPACITY
  BEGIN WATER
                     0.0 GAL
   BEGIN WATER
                                                                          19378.4 GAL
                    0.000 IN
                                                             ULLAGE
                                                                              59.799 F
  END TIME
                                                             TEMPERATURE
                                                                               0.000 IN
  END DATE
                  95/01/2006
                                                             WATER LEVEL
  END GROSS
                                                                                g.g GAL
                                                             WATER VOLUME
                  9227.6 GAL
  END HET
                  9230.2 GAL
  END LEVEL
                   55.818 IN
  END TEMP
                                                                       TANK 3
                    59.363 F
  END WATER
                    0.0 GAL
  END WATER
                                                                             6260.8 GAL
                   0.000 IN
                                                              TANK NO. 3
                                                                              30 NT OIL
                                                              PRODUCT
                                                                             4314.3 GAL
4313.3 GAL
        HOURLY DATA
                                                              GR855
                                                              NET
                                                                               61.829 IN
 TIME
            DEG F GAL
                                                              PROD LEVEL
                                                                                  68. 97
                                                              GROSS CAPACITY
  ·0:58
           59.380 17883.57
59.377 17883.65
                                                                              1633.5 GAL
  1:58
                   17883.65
                                                               IJLLAGE -
                                                                                 69.494 F
  2:58
           59,374 17883,66
                                                               TEMPERATURE
                                                                                 0.014 IN
  3:58
           59.373 17883.98
                                                               WATER LEVEL
                                                                                  9.0 GAL
  4:58
           59.369
                  17883.99
                                                               WATER UDLUME
  5:58
           59.367 (7884.01
  6:58
          59.365 17884,12
  7:58
           59.363 17884.13
SLOPE SLOPE LOW 9.988 GAL/HR SLOPE HIGH 8.998 GAL/HR TEST RESULT SLOPE FOUR
SLOPE EQUALS CALCULATED
LEAK RATE
```

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FOSS MARITIME
9030 NW ST HELENS RD
                                                           P. O. BOX 83018
      TROŚSLMAKITIME
                                                        PORTLAND OREGON 97231
   GOZG NU ST HELENS RD
                                                            1-503-286-0631
     ວ. 0.550x783018
  PORTLAND OREGON 97231
                                                      05/01/2006
                                                                             7:59
       1-<u>503-286-0631</u>
                                                           LEAK TEST REPORT
. 05/81/2006
                        3:08
                                                      TANK 2
                                                                     20032,7 GAL
      LEAK TEST REPORT
                                                                DIESEL
 TANK 3
                 6260.8 GAL
                                                      LEAK TEST
                                                                       8.288 GPH
         39 WT GIL
                                                      LEAK THRESHOLD 0.100 GPH
                                                      CONFIDENCE LEVEL
 JEAN TEST
                  0.200 GPH
                                                                           95.0%
                                                      TEST STARTED
  MAK THRESHOLD 0.100 GPH
                                                                           23:59
                                                      TEST STARTED 04/30/2006
 COMETDENCE-FEATI-
                    ~95; 6%
                                                      LAST DELIVERY 1:29
 TEST STARTED
                      23:59
                                                      LAST DELIVERY 04/28/2006
 TEST STARTED 04/30/2006
                                                     GROSS CAPACITY 43.2%
 LAST DELIVERY 10:19
                                                     BEGIN GROSS
                                                                     8652.8 GAL
8653.5 GAL
53.126 IN
  AST DELIVERY 03/30/2006
               TY 68.9%
4314.2 GAL
4313.3 GAL
                                                      BEGIN MET
 GROSS CAPACITY
 BEGIN LEVEL
                                                     BEGIN LEVEL
                                                     BEGIN TEMP
                                                                       59.799 F
                                                     BEGIN WATER
                                                                        9.9 GAL
                  61,829 TN
                                                     BEGIN WATER
                                                                       0.000 IN
7:58
 SEGIN TEMPS
                   68.494 F
                                                     END TIME
 BEGIN WATER
                   0.0 GAL
                                                     END DATE
 REGIN WATER
                                                                     95/91/2096
                   0.014 [N
3:08
                                                     EMD GROSS
 END TIME
END DATE
                                                                     8653.1 GAL
                        3:08
                                                     END NET
                                                                     8653.9 GAL
                 95/91/2008
                                                     END LEVEL
                 4314.2 GAL
4313.2 GAL
 END GROSS
                                                                      53.127 JN
                                                     END TEMP
                                                                       59,792 ⊨
 END NET
                                                     END WATER
                                                                        ଡି.ଡି.ଡିA∐
                  61.829 TH
 END LEUE!
                                                     END WATER
                                                                       0.000 IN
 END TEMP
                   60.503 E
 END WATER
                    0.0 GAL
                                                           HOURLY DATA
 END WATER
                   0.014 IN
                                                    TIME
                                                               OEG F GAL
        HOURLY DATA
                                                     9:52
                                                              59.798 17883,57
                                                              59.798 17883.65
                                                     1:58
 TIME
            DEG F GAL
            60.497 4313.30
60.500 4313.33
60.502 4313.34
                                                     2:58
                                                              59.797 17883.66
  0:58
                                                     3:58
                                                              59.795 17883.98
  1:58
                                                     4:58
                                                              59.794 17883,99
  2:58
                                                     5:58
                                                              59.793 17884.91
                                                     6:59
                                                              59,793 17884,12
 SLOPE
             -0.000 GAL/HR
 SLOPE LOW -0.001 GALZHR
SLOPE HIGH 0.001 GALZHR
TEST RESULT PASSED
                                                     7:58
                                                              59,792 17884,13
                                                   SLOPE
                                                                 0.088 GALZHR
                                                   SLOPE LOW
                                                                0.087 GALZHR
 SLOPE EQUALS CALCULATED
                                                   SLOPE HIGH 0,090 GAL/HR
TEST RESULT PASSED
 LEAK RATE
                                                                        PASSED
                                                   SLOPE EQUALS CALCULATED
                                                   LEAK RATE
```



TANK

FOSS MARITIME - 9030 NW ST HELENS RO - 0. BOX 33018 - PORTLAND OREGON 97231 1-503-286-0631

96/91/2996 7158 LEAK TEST REPORT

20032.7 GAL

DIESEL

LEAK TEST 0,200 GPH
LSAK THRESHOLD 0.100 GPH
CONFIDENCE LEVE. 95.6%
TEST STARTED 7:29
TEST STARTED 7:29
LAST DELIVERY 05/26/2006
GROSS CAPACITY 44.8%
BEGIN GROSS 9970.7 GAL
BEGIN GROSS 9941.4 GAL

SEGIN MET 54,616 IN BEGIN LEVEL 67,178 F BEGIN TEMP ัด.ติ6A-BEGIN WATER 0.000 IN BEGIN WATER 7:58 END TIME 06/01/2006 END DATE 2971,6 GAL END GROSS 8942.6 GAL

END WET 54.600 IN FUND LEVEL 57.899 E 67.899 E 60.00 IN END WATER 9.800 IN

HOURLY DATA

DEG F GAL 67,167 18572.79 67,157 18575.84 でも対応 Ø:50 ::58 67,147 [8576.94 2:58 67.137 18582.42 3:58 67,127 18574.82 4:58 67.118 18576.88 5:58 67.109 18575.83 6:58 67,099 18581.62

SLOPS —9.998 BAL/HR
SLOPE LOW —9.843 BAL/HR
SLOPE HIGH 9.828 BAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK SATE

FOSS MARITIME 9839 NW ST HELENS RD 05/31/2006

23:59

TANK INVENTORY DETAIL

TANK 1

20032.7 GAL TANK NO. 1 2003' MANIFOLD MAN 1 DIESEL PRODUCT 8970.7 GAL GROSS 8941.4 DAL PROD LEUEL 54.616 IN GROSS CAPACITY 44.8X ULLAGE 10060.4 GAL ULLAGE 67.178 F TEMPERATURE 0.000 IN WATER LEUEL -a.a GAL WATER VOLUME

TANK 2

20032.7 GAL TANK NO. 2 MANTERLD DIESEL PRODUCT 9670.7 GAL 9638.7 GAL GROSS. NET 57.887 IN PROD LEVEL GROSS CAPACITY 9360.3 GAL ULLAGE 67.290 F TEMPERATURE 0.000 IN WATER LEVEL 9.9 GAL WATER UOLUME

TANK 3

6260.8 GAL TANK NO. 3 30 WT DIL PRODUCT 2981.8 GAL GROSS. 2974.9 GAL NET 45.729 IN PROD LEVEL PROD LEVEL 47.64 GROSS CAPACITY 2965.9 GAL ULLAGE 65.094 F TEMPERATURE 0.022 IN WATER LEVEL WATER UDLUME ดู,ด GAL

```
EOSS MARITIME
9030 NW ST HELENS RD
        9. O. SOX STAIS
PORTLAND OREGON 9723
              1-593-286-9631
      8679172006.
                                     2:59
            LEAK TEST REPORT
      TANK 2
                          20032.7 GAL
                   DIESEL
     LEAK TEST
                            0.200 ден
     LEAK THRESHOLD 0.100 GPH
     COMFIDENCE -LEUEL
                                  95, 97
     TEST STARTED 23:59
TEST STARTED 95/31/2096
                                  23:59
    LAST DELIVERY 7:29
LAST DELIVERY 85/26/2896
    GROSS CAPACITY
BEGIN GROSS 9
                                 48.3%
                         9670.7 GAL
9638.7 GAL
57,887 IN
    BEGIN NET
    BEGIN LEVEL
    BEGIN TEMP
                            67.290 F
    BEGIN WATER
                              0.0 GAL
    BEGIN WATER
                            0.000 IN
   END TIME
   END DATE
                        96/01/2006
9670.7 GAL
   END-GROSS
   END HET
                        9639.0 GAL ---
57.887 IN
   END LEVEL
  END TEMP
                           67.217 F
END WATER
                            Й, Й (JA)
                           0.000 IN
           HOURLY DATA
               DE6, F. GAL
67,280 19572,70
67,271 18575,84
67,261 18576,94
67,252 18582,42
  TIME
   M:58
   1:58
   2:58
   3:58
              67.243 18574.82
67.234 18576.88
67.226 18575.83
67.217 18581,62
   4:58
   5:58
  6:58
   7:58
SLOPE
                 -0.008 GAL/HR
SLOPE LOW -0.043 GAL/HR
SLOPE LOW TW. MAS GAL/HR
SLOPE HIGH 0.028 GAL/HR
TEST RESULT , PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
```

```
=088 MARITIME
 ANTA NO ST HE FUE PO
    P. O. 80X 83018
PORTLAND OREGON 97231
      1-593-286-9631
                         3:98
06/01/2006
                                                200Ex
     LEAK TEST REPORT
                                               g GAL
TANK 3 6260.8-GAL
                                               A TO GAL
                                              HI DOD.
         39 WT OIL
                    0.200 GPH
LEAK TEST -
LEAK THRESHOLD 8.188 GPH
                         95,62
 CONFIDENCE LEUSL
                         23:59
 TEST STARTED
                   95/31/2006
 TEST STARTED
 LAST DELIVERY
                         10:19
 LAST DELIVERY 03/30/2006
                          47.6%
 GROSS_CAPACITY
                                               245 18576.89
234 18576.89
236 18575.85
.226 18581.62
.217 18581.62
                    2981.8 GAL
 BEGIN GROSS
                    2974.9 GAL
45.729 IN
  BEGIN NET
  BEGIN LEVEL
BEGIN TEMP
                      65.094 F
                                                -B. MBR GAL HR
                                            -8.988 BAL/HR
W -8.943 BAL/HR
B. 028 BAL/HR
PASSED
SULT - AN AMAZER
                       -<del>6,</del>6-64-
  BEGIN WATER
                     _9.022 IN
3:08
  BEGIN WATER
  FND TIME
                    96/91/2006
  END DATE
                                             MIALS CALCULATED
                    2981.8 GAL
  END GROSS
                     2974.9 GAL
45.729 IM
   END MET
   END LEVEL
                                             ATE
                       65,101 F
   END TEMP
                        ย.ด GA'_
   END WATER
                        0.022 IN
   END WATER
           HOURLY DATA
               DEG F GAL
65.096 2974.90
65.098 2974.89
    TIME
     ด:58
     1:58 -
                 65.101 2974.92
     2:58
                  -0.003 GAL/HR
    SLOPE
    SLOPE LOW -0.004 GAL/HR
SLOPE HIGH -0.002 GAL/HR
TEST RESULT PASSED
     SLOPE EQUALS CALCULATED
     LEAK RATE
            EOSS MARITIME
        9030 NU ST HELENS RO
           ₽. O.∖90X 83018
```

```
FOSS MARITIME
                                                   9070 NU ST HELENS ON
                                                     e. O. 30% 83018
                                                  PORTLAND OREGON 9723
                                                       1~503=286-0631
         9830 NW ST HELENS RD
           P. O. BOX 83018
                                                 07/01/2006
                                                                       З∶из
       PORTLAND DREGON 97231
                                                     LEAK TEST REPORT
            1-503-286-0631
                                                 TANK 3
      97/95/209<sub>6</sub>
                                                                6260.8 GAL
                           12:30
                                                    7 30 WT 916
          LEAK TEST REPORT
     TANK 3
                                                LEAK TEST
                                                                 9.200 GPU
                     6260.8 GAL
                                                LEAK THRESHOLD 0.100 GPH
                                                COMPTOENCE LEVEL
             30 NT OIL
                                                TEST STARTED
                                                                     23:59
                                                TEST STARTED 06/30/2006
     LEAK TEST
    LEAK THRESHOLD 0.050 GPH
                     0.100 GPH
                                                LAST DELIVERY
                                                                   (0:19
    GONFIDENCE LEVEL
                                                 AST-DELTUERY-03/30/2006
                                                GROSS CAPACITY
                         95.07
    TEST STARTED
                       9:30
                                                                 ---35,42
                                                BEGIN GROSS
    TEST STARTED 97/05/2006
                                                             2214.6 GAL
                                                BEGIN NET
    LAST DELIVERY
                                                               2204,8 GAL
    LAST DELIVERY 03/30/2006
                        19:19
                                                BEGIN LEUEL
                                                                36.487 IN
    GROSS CAPACITY
                                                BEGIN TEMP
                                                                 69.765 F
                        29.7%
   BEGIN GROSS
                                                BEGIN WATER
                                                                  0.0 GAL
                   1862.4 GAL
   BEGIN NET
                                                BEGIN WATER
                                                                 9.021 IN
                   1853.8 GAL
32.116 IN
71.863 F
   BEGIN LEVEL
                                               END TIME
   BEGIN TEMP
                                               END DATE
                                                               07/01/2006
   BEGIN WATER
                                               END GROSS
                                                               2214.6 GAL
                     0.0 GAL
   BEGIN WATER
                                               END NET
                                                               2204.8 GAL
                    0.021 IN
   END TIME
                                               END LEVEL
                                                                36.487 IN
                       12:39
                                               END TEMP
   END DATE
                                                                 69.777 F
                  97/95/2006
  END GROSS
                                               END WATER
                                                                 9.9 GAL
                  1862.5 GAL
  END NET
                                               END WATER
                                                                 0.021 IN
                  1853.1 GAL
  END LEVEL
                   32.117 IN
  END TEMP
                                                     HOUPLY DATA
                    71.082 F
  END HATER
                    Ø.Ø GAL
  END WATER
                                               TIME
                                                          DEG F GAL
                   0.022 IN
                                                Ø:59
                                                          69.769 2204.82
69.773 2204.80
                                                1:58
        HOURLY DATA
                                                2:58
                                                          69.777 2204.82
 TIME
            DEG F GAL
 10:30
           71.069 1853.22
71.076 1853.23
                                               SLOPE
                                                            0.006 GAL/HR
                                               SLOPE LOW
 11:30
                                                           9.995 GAL/HR
                                              SLOPE HIGH 0.007 GALZHR
TEST RESULT PASSED
 12:30
           71.082 1853.17
SLOPE
                                              SLOPE EQUALS CALCULATED
SLOPE LOW 0.037 GAL/HR
SLOPE HIGH 0.041 GAL/HR
             0.039 GAL/HR
                                              LEAK PATE
                   PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
                                               9779172996
                                                                    18:96
```

		•	
		·	07/01/2006 7:59
	The state of the second	·	
			LSAK TEST REPORT
1	GOSS MARITIME GOSO NU ST HELENS RD	. !	TANK 1 . 20032-7 GAL
	P. O. BOX 83018 PORTLAND OREGON 9723;		DIESEL
	1-593-286-9631		LEAK TEST 9,280 GP4
			LEAK THRESHOLD 0.100 SPH COMPIDENCE LEVEL 195.00
	LEAK TEST REPORT		TEST STARTED 23:59 TEST STARTED 96/30/2006
. .	TANK 1 20032.7 GAL		LAST DELIVERY 18:31 LAST DELIVERY 06/28/2006
-	·		GROSS CAPACITY 58.2%
1	DIESEL		BEGIN GROSS 11668.6 GAL BEGIN NET 11607.8 GAL
1	LEAK TEST - G.LAA GPH LEAK THRESHOLD 0.050 GPH		BEGIN LEVEL 67.230 IN BEGIN TEMP 71.455 F
	FUNHIDENCE LEUFI 95.8X		85GIN WATER 0.0 GAL SEGIN WATER 9.000 IN
	TEST STARTED 07/05/2006		END TIME 7:58 END DATE 07/01/2006
	LAST DELIVERY 07/03/2006		END GROSS 9076.0 GAL
	BEGIN GROSS IDDEA 2.00		END_MET 9028.0 GAL END_LFUEL 55.109 IN
	BEGIN NET 9991.5 GAL BEGIN LEVEL 59.706 IN	·	FIND TEMP 71.630 FIND WATER 8.9 GAL
	BEGIN VETER G G CAL	1	SND WATER 0.000 IN
	BEGIN WATER 0.000 IN		HOURLY DATA
1.	END DATE 97/85/2886		TIME DEG 5 GAL
	END NET 9991.5 GAL -		0:58 71.646 16888.32 1:58 71.690 14646.94
	END TEMP 74.897 F		2:58 71.697 14654,02 3:58 71.685 14650,85
	END WATER 8.0 GAL END WATER 9.000 IN		4:58 71.669 14652.10 5:59 71.657 14655.21
	HOURLY DATA		6:58 71.644 14654.07 7:58- 71.630 14653.02
	TIME DES F GAL		
	10:30 75.061 19284.57		SLOPE -404.406 GAL/HR SLOPE LO -419.448 GAL/HR
	12:39 75.011 19284.40	-	SLOPE HI -389.365 GAL/HR TEST RESULT FAILED
Ĭ	14:30 74.961 19284.56		SLOPE EQUALS CALCULATED LEAK RATE
	13:38 74,938 19284.23 16:38 74,916 19284.29		
14	17:30 74.897 19284.48		FOSS MARITIME
	SLOPE -0.013 GAL/HR SLOPE LOW -0.018 GAL/HR		BEGIN TEMP 71-984 F
	SCENE HIGH -0.008 GALVHR	and the second s	END TIME 17:59 END DATE 07/01/2004
	SLOPE EQUALS CALCULATED LEAK RATE	e e e e e e e e e e e e e e e e e e e	END GROSS 25199.3 GAL END NET 25065.5 GAL
			END ULLAGE 12862.8 GAL
			END WATER 0.000 IN
	The state of the s		END WATER 0-0 GAL END TEMP 71.587 F
			GROSS DEL 19481.8 GAL NET DEL 19427.9 GAL

```
NUKTCHNOTOKEDON-97X5I
                                                                                    1-503-286-0631
                                                                                                     7:59
                                                                              07/01/2006
                                                                                   LEAK TEST REPORT
                       המבטרות במבטר
                  9838 NW ST KELENS RD
                                                                                             20032.7 GAL
                    P. O. SOX 83018
                                                                               TANK 2
                 PORTLAND OREGON 97231
                                                                                         DIESEL
                     1-503-286-0631
                                                                                                0.200 GPH
               07/05/2006
                                                                               LEAK TEST
                                                                                CEAK THRESHOLD 9.100 GPH
                                                                                                     95,9%
                                                                                CONFIDENCE LEVEL
                  LEAK TEST REPORT
                                                                                                     23:59
                                                                                TEST STARTED
                                                                                               06/30/2006
              TANK 2
                                                                                TEST STARTED
                            20032,7 GAL
                                                                                                     18:31
                                                                                LAST DELIVERY
                                                                                LAST DELIVERY 06/28/2006
                       DIESEL
                                                                                                     47.8%
                                                                                GROSS CAPACITY
            LEAK TEST
                                                                                                9576.4 GAL
                                                                                BEGIN GROSS
            LEAK THRESHOLD 0.000 OFF
                                                                                                9525.0 GAL
                                                                                 BEGIN HET
            CONFIDENCE LEVEL
                                                                                                 57,447 IN
                                                                                 BEGIN LEVEL
            TEST STARTED
                                                                                                   71.799 F
          TEST STARTED B7/85/2006
LAST DELIVERY B7/83/2006
LAST DELIVERY B7/83/2006
                                                                                 BEGIN TEMP
                                 95.0%
                                                                                                    0.0 GAL
                                                                                 BEGIN WATER
                                                                                                   0,000 IN
                                                                                 SEGIN WATER
                                                                                                       7:58
          GROSS CAPACITY
                                                                                 FND TIME
                                                                                                 a7/91/2996
                                                                                 END DATE
          BEGIN GROSS - 9354 B GAL
                                                                                                 5655.7 GAL
                               46.7%
          BEGIN-NET
                                                                                  END GPOSS
                                                                                                 5625.0 GAL
                                                                                  END MET
         BEGIN LEVEL
                         9292.9-GAL
                                                                                                  38.725 [N
71.915 F
                                                                                  END LEVEL
         BEGIN TEMP
                          56,408 IN
                                                                                  END TEMP
        BEGIN WATER
BEGIN WATER
                                                                                                     8.8 GAL
                           74.360 F
                                                                                  END WATER
                                                                                                    0.000 IN
                           0.0 GAL
                                                                                  END WATER
        END TIME
                          9.999 IN
        END DATE
                       97/95/2006
                                                                                         HOURLY DATA
       END GROSS
       END NET
                       9353, 5 GAL
                                                                                              DEG F GAL
                                                                                   TIME
       END LEVEL
                       9293.0 GAL
                                                                                             71.840 16888.32
      END TEMP
                                                                                    Ø:58
                       56, 486 IN
                                                                                             71,981 14646,94
                                                                                    1:58
      END WATER
                        74.298 F
                                                                                             71.995 14654.92
      END WATER
                                                                                    2:58
                                                                                             71,991 14650,85
                        B. A GAL
                                                                                    3:58
                       0.000 IN
                                                                                             71.977
                                                                                                     14652.10
                                                                                    4:58
                                                                                             71,958 14655.21
           HOURLY DATA
                                                                                     5:58
                                                                                             71.936 (4654.07
     TIME
                                                                                     6:58
                                                                                             71,915 14653.02
                DEG F
                                                                                     7:58
    10:30
                       GAL
              74.339 19284.57
    11:30
              74.319 19285.43
                                                                                             -494,496 GAL/HR
                                                                                    SLOPE.
    12:30
                                                                                    SLOPE LO -419.448 GAL/HR
             74.299 19284.49
   13:30
                                                                                    SLOPE HI -389.365 GAL/HR
             74.280 19284.42
   14:30
                                                                                                        FAILED
             74.262
                                                                                    TEST RESULT
   15:30
                    19284, 56.
                                                                                    SLOPE EQUALS CALCULATED
LEAK RATE
            74.243 19284.23
  16:39
            74.225 19284.29
  17:30
            74.208 19284.48
 SLOp_F
 SLOPE LOW
             -0.013 GAL/HR
SLUPE LUW TO USE CALLAR SLOPE HIGH -0.008 GALAR SACCES
           -0.018 GALZHR
TEST RESULT PASSES
SLOPE EQUALS CALCULATED
                    PASSED
LEAK RATE
```

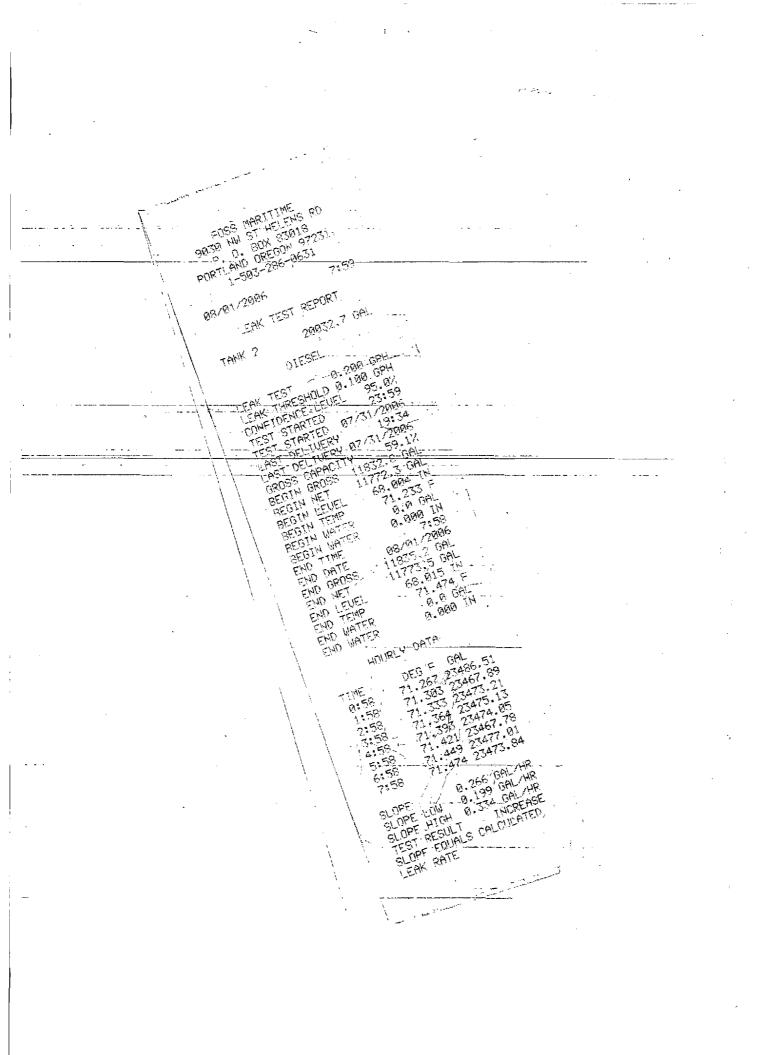
```
9830 NW ST HELENS RD
     P. O. BOX 83018
  PORTLAND DREGOM 97231
      1-503-286-0631
 97/91/2006
                     18:86
   TANK DELIVERY REPORT
FDIESEL
               40065.4 GAL
     TANK_1/(MAN 1 )
 BEGIN TIME
                     17:34
 SECIN DATE
                97/91/2006
               14717,5 04
 BEGIN GROSS
 SEGIN NET
               14638.5 GAL
 BEGIN ULLAGE 23344.6 GAL
 SEGIN LEVEL
                 55.042 IN
 BEGIN WATER
                  ଜ,ଜନ୍ମ JN
 SEGIN WATER
                  0.0 GAL
 BEGIN TEMP
                  71,676 E
 END TIME
                97/91/2096
 END DATE
 END GROSS
               25199.3 GAL
 END HET
               25065.5 GAL
 END LILLAGE
               12862.8 GAL
 END LEVEL
                 76,393 IN
 END WATER
                  0.000 IN
 END WATER
                  0.0 GAL
71.736 F
 CHD TEMP-
               10481.8 GAL
10427.0 GAL
 GROSS DEL
 MET DEC
   FOSS MARITIME
9030 NW ST HELENS RD
     P. O. BOX 83018
  PORTLAND OREGON 9723:
      1-593-286-9631
 07/01/2006
                     18:97
   TANK DELIVERY REPORT
 DIESEL
              49965,4 BAL
     TANK 2 ( MAN 2 )
 BEGIN TIME
 SEGIN DATE
                97/91/2996
 BEGIN GROSS
               14717.5 GAL
 SEGIN NET
               14638.5 GAL
 BEGIN ULLAGE 23344.6 GAL
 REGIN LEVEL
                 38.726 IN
 BEGIN WATER
                  0.000 IN
 SEGIN WATER
                  0.0 GAL
 BEGIN TEMP
                  71,984 ⊑
 SHO TIME
                     17:59
 END DATE
               • 97/91/2996
 END GROSS
               25199.3 GAL
 END MET
               25065.5 GAL
 END ULLAGE
               12862,8 GAL
 END LEVEL
                 66.962 IN
 END WATER
                 0.000 IN
 END WATER
                  9.0 SAL
 END TEMP
                  71.587 F
 GROSS DEL
               19481.8 GAL
 NET DEL
               10427.0 GAL
```

FOSS MARITIME 9030 NW ST HELEMS RD P. O. BOX 83018 PORTLAND OREDON 97231	=068 MARITIME 9836 NW ST HELENS RD 9 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 2:89	FOSS MARITIME 9030 NW ST HELEWS RD P. O. 80X 83018
1-503-286-9631 08/01/2006 7:58	98/91/2006 ZEAN TEST REPORT	PORTLAND OREGON 97231 1-503-286-0631
LEAK TEST REPORT		<u>07/31/2006</u> 23:59
TANK 1 20032.7 GAL	30 ML GIF	TANK INVENTORY DETAIL
DIESEL LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 23:59 TEST STARTED 07/31/2006 LAST DELIVERY 19:34 LAST DELIVERY 97/31/2006 GROSS CAPACITY 58.7% BEGIN GROSS 11754-7 GAL BEGIN NET 11695-7 GAL BEGIN LEVEL 67:636 IN BEGIN LEVEL 67:636 IN BEGIN LEVEL 67:638 F BEGIN WATER 0.0 GAL BEGIN WATER 0.000 IN TIME 08/01/2006	LEAK TEST 0.290 GPH LEAK THRESHOLD 0.100 GPH LEAK THRESHOLD 0.100 GPH LEAK THRESHOLD 0.100 GPH LEST STARTED 07/31/2006 TEST STARTED 07/31/2006 LAST DELIVERY 03/30/2006 LAST DELIVERY 03/01/2006 LAS	TANK 1 TANK NO. 1 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 11767.1 GAL NET 11708.0 GAL PROD LEUEL 67.594 IN GROSS CAPACITY 58.7% ULLAGE 7263.9 GAL TEMPERATURE 71.039 F WATER LEVEL 0.000 IN WATER UNLUME 0.0 GAL TANK 2 TANK NO. 2 20032.7 GAL MANIFOLD MAN 1
END GROSS 11765.3 GAL END NET 11705.6 GAL END LEVEL 67.690 IN END TEMP 71.347 F END WATER 0.0 GAL END WATER 0.000 IN HOURLY DATE	END TEMP 75.787 END TEMP 8.1 GAL END WATER 8.838 IN END WATER 9.838 IN HOURLY DATA TIME 0EG F GAL 75.717 536.38 8:58 75.788 536.38	PRODUCT DIESEL GROSS 11832.9 GAL NET 11772.4 GAL PRODUEUEL 68.004 IN
8:58 71.878 23474.89 1:58 71.146 23474.84 2:58 71.182 23475.21 3:58 71.232 23475.21 4:58 71.271 23476.81 5:58 71.292 23475.97 6:58 71.317 23473.87 7:58 71.347 23479.21	a age 594/75	TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS 540.1 GAL NET 536.2 GAL PROD LEVEL 13.427 IN GROSS CAPACITY 8.67
SLOPE 0.267 GAL/HR SLOPE LOW 0.200 GAL/HR SLOPE HIGH 0.334 GAL/HR TEST RESULT INCREASE SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME		ULLAGE 5407.6 GAL TEMPERATURE 75.725 F WATER LEVEL 0.030 IN WATER VOLUME 0.1 GAL
9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631	· · ·	
08/01/2006 /539 LEAK TEST REPORT	!	•
LEAK LEGIT SELVISIT	j	·

20032.7 GAL

DIESEL

TANK 2



	FOSS MARI 9030 NW ST HI 2. 0. 80% PORTLAND ORE	ELENS, RD : ekais	err e ti -	<u></u>
FOSS MAR. TIME	∑ – Ω8? – Y ວ. o	, —&:Cr2+1	F098	MADITTEE
9030 NU ST HELFUS RO .	09/07/2006	21:11		SA AETEMS BD Garritus
	LEAK TEST		PORTLAND (1-503-	30X 83018 DREGON 9723: -286-9631
09/07/2006 ([©] 21:10	TANK 2 2	19032.7 GAL	9979772006	
LEAK TEST REPORT	DIES		. LEAK TÉ	
	LEAK TEST	ajiga GPH	k .	
TANK 1 20032.7 GAL :	LEAK THRESHOLI CONFIDENCE LE	ე ტ.ტეტ-დიი ა		6260.8 GAL
OIESEL	TECT STARTED	7.7 = 7.1	.; 30 N	T DIL .
LEAK TEST 0.100 GPH	TEST STARTED	99/97/2005 20:10	LEAK TEST	ୁ ମୁ. 2 <u>ଉଡ୍ଗଳ</u>
LEAK THRESHOLD 0.050 GPH	LAST DELIVERY LAST DELIVERY	a9/01/2006		8 D 9 100 Ann
CONFIDENCE LEVEL 95.0% :	- conss CAPACII	Ψ 3 6. 16	THE PROPERTY OF THE PROPERTY O	
TEST STARTED 13:10	omain GRASS	7227.5 UHL	1	1 4
TEST STARTED 09/07/2006	mentu NET	7176.0 GAL		. 4:44 2 09/07/2005
LAST DELIVERY 20:10 LAST DELIVERY 09/01/2006	BEGIN LEVEL	46.382 TM 75.663 F	LAST DELIVER LAST DELIVER GROSS CARGO	T 7:51
GROSS CAPACITY 44.6%	BEGIN TEMP	/ភ.០05 ក ៨ ៧ GAt		
BEGIN GROSS 8942.1 GAL	BEGIN WATER BEGIN WATER	0,0 GAL 0.000 IN 21:10		
BEGIN NET 8878.9 GAL	FND TIME	21:10	SEGIN NET	3902.4 GAL
BEGIN LEVEL 54.482 IN	END TIME	09/ <u>07/200</u> 6	BEGIN HET BEGIN LEVEL SEGIN TEMP	57.125 IN .
BEGIN TEMP 75.522 F BEGIN WATER 0.0 GAL	FND GROSS	7227.9 099. '	BEGIN MATCO	76.742 F
BEGIN WATER 0.0 GAL BEGIN WATER 0.000 IN	END MET	7176.6 GAL 46.384 IN	SEGIN TEMP SEGIN WATER SEGIN WATER END TIME	0.1 GAL
END TIME 21:19	END LEVEL END TEMP	25 A13 E !	END TIME	ย. ยงง 1N 7:54
END DATE 09707/2006	FNO WATER	9.000 IN	END DATE	99/97/2006
END GROSS 8943,2 GAL	END WATER	9.009 IN - ;	EMD_GROSS END NET	3932.5 GAL
END NET 8880.2 GAL . END LEVEL 54,488 IN	:		END LEVEL	3902.5 GAL
END TEMP 75,482 F	i HUUKUY	DATA	. SND TEMP	57.126 IN 76.737 F
END WATER 0.0 GAL		ra e GAL	END WATER	.o.rov ⊨ @.i @A[
END WATER 0.000 IN	. iu∗ta 75.	.656 }60005.i./)	END WATER	0.034 IN
HOURLY DATA	15:10 75	.650 16063.32 .644 16051.98	HOURLY [
ERANDONIA TO MOTE FOR		.637 16055.31	ĩ	20 : F
TIME DEG F GAL	10.10 75	.63: 16055.52	TIME DEG	F GAL
14:10 75.517 16051.80	19110 (7)	* PSD 1000000000	76.7	'4! 3900 so
15:10 75.512 16060.27	20:10 75	619 16053 ₊ 63	76.7 7144 76.7	39 3902 ss
16:10	21:19 75	613 16057.90	75.7	37 3902.55
18:10 75.497 16058.77	-1 ADE	-0.487 GAL∕HR	SLORE A.	008 GAL/HR
19:10 75.492 16058.76	ะเกษา เกษ	-0.541 GAL/HR	SPECIFIC LINE DE	1917 ca us
20:19 75,487 16053.72	SLOPE HIGH	-0,437 UHL/HR	- 프로그램트 대표를 다 다	009 GALZHR
21:10 75.482 16056.86	TEST RESILE	FA11.50	化硫化化 医色色纤维的	<u>AAAAA</u>
SLOPE -0.486 GAL/HR :	SLOPF EOUAL	s CALCULATED	SLOPE EQUALS CO LEAK RATE	ALCULATED
SLOPE LOW -0.540 GALZHR	LEAK RATE	İ	44.2 1.86.1.1	
SLOPE HIGH -0.431 GAL/HR		į		
TEST RESULT FAILED				

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	FOSS MARITIME	*
	9030 NW ST HELENS RD	
]	2000 NA OLUTTORO VA	· · · · · · · · · · · · · · · · · · ·
1	P. O. 90X -85018	\$15 pt 355 pt 1
1	PORTLAND BREGON 97231 1	
	1-503-286-0631	FOSS MARITIME
İ		9838 NO ST HELENS RD
. !	09/07/200 6 12:44	୍ ନ ତ, 30X 83018
`	ebreir zowy ser :	PORTLAND OREGON 9723:
- 1	LEAK TEAT OFFICET	1.501.001.001
1	LEAK TEST REPORT	1-503-286-0631
!		
	TANK 2 20032.7 GAL	09/07/2006 12:44
1		
1	DIESEL	LEAK TEST REPORT
	Militaria	was no state of the first
		TABLE 4
	LEAK TEST : 0.200 GPH :	7 TANK 1 20032.7 GAL -
-	LEAK THRESHOLD 0.100 GPH	•
	CONFIDENCE LEVEL 95 -/	DIESEL
<u>-</u>	TEST STARTED	
	TEST STARTED 09/07/2006	: LEAK TEST 0.200 GPH
	(E2) 2144:55 625614766	FOUNT TO A NAME PAR
1	LAST DELIVERY 20:10 ;	LEAK THRESHOLD 0.100 GPH
- 1	LAST DELIVERY 09/01/2006	CONFIDENCE LEVEL 95.6%
	GROSS CAPACITY 36.1% !	TEST STARTED 4:44
i	BEGIN GROSS 7228.6 GAL	TEST STARTED 09/07/2006
	DEBIN DEVOC 1 CAR O DA	
- 1	BEGIN NET 7176.9 GAL	CAST DELIVERY 20:10
	BEGIN LEVEL 46.387 IN	LAST DELIVERY 09/01/2006
i	REGIN TEMP 75.726 F	GROSS CAPACITY 44.7%
	BEGIN WATER 0.0 GAL	BEGIN GROSS 8954.3 GAL
	BEGIN WATER 0.000 IN	BEGIN NET 8890.8 GAL
•		
	END TIME 12:44	BEGIN LEUEL 54,540-IN-
i		BEGIN LEUEL 54,540-IN
	END TIME 12:44	BEGIN LEUEL 54,540-IN- BEGIN TEMP 75.578 F BEGIN WATER 8.0 GA
	END TIME 12:44	BEGIN LEUEL 54,540-IN- BEGIN TEMP 75.578 F BEGIN WATER 8,0 GAL
	END TIME 12:44	BEGIN LEUEL 54,540-IN
, ;	END TIME 12:44 END DATE 09/07/2006 END GROSS 7227.4 GAL END NET 7175.8 GAL END LEVEL 46.381 IN	BEGIN LEUEL 54,540-IN- BEGIN TEMP 75.578 F BEGIN WATER 0,0 GAL BEGIN WATER 0.000 IN E END TIME. 112:42 \$>
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	SAUSA WAY ST HETENIS BD	P. D. BUX 83018	FDSS MARITIME
	9. U. BUX 83018	9030 NW ST HELENS RD P. O. SOX 83018 PORTLAND OREGON 97231 1-503-286-0631	9030 NW ST HELENG DO
	HOMICHNO OKEGOM 84521	1-503-286-0631	
	t-503-286-9631		PORTLAND OREGON 9723:
		@971472906 11:09	1-593-286-9631
	09/15/2006 10:38		. seene. #th@=#DDM
		TANK DELIVERY REPORT	9971 <u>572</u> 996 9±37
	ALARM REPORT	THE STATE OF THE PARTY OF THE P	837.12\2686 8:32
		DIESEL 40065.4.GAL	TANK WELTINGER
	9971572986 19:38	Complete Company of the Company of t	TANK DELIVERY REPORT
	HIGH PRODUCT LIMIT	DIESEL 40065.4.GAL TANK 1 (MAN 1)	DIESEL 40065.4 BAL
	TANK NO. 1	THIN & CHEM.	. DIESEL 40065,4 GAL
		BEGIN TIME 19:39 - BEGIN DATE 09/14/2006	TANK 1 (MAN 1)
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·÷		SEGIN GROSS 15836.1 SAL -	REGIN TIME 9:06
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		BEGIN ULLAGE 22226.0 GAL	554 (P. 680SS 1322a a 650
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		BEGIN WATER 0.000 IN	BEGIN ULLAGE 24287,2 GAL
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			REGIN MATER
i		END TIME 11:03 END DATE 99/14/2906	BEGIN WATER 0.0 GAL 926 FO
	FOSS MARITIME	SMD GROSS 26146.5 GAL	END TIME 71.926 F 2
	9030 NW ST HELFNS Ph	END NET 26010.3 GAL	
	SO30X_83010	END ULLAGE 11915v6- GAL	
	PORTI AND OREGON 97231	END LEUEL 81,981 IN	
	1-503-286-0631		
			13790.6 GAL
	09/15/2006 10:45	END WATER 0.0 GAL	200 ASUBL 71, 200 TN
_	191,45	<u> </u>	
	Tank AFLICATION AND A STATE OF THE STATE OF	GROSS DEL 19310,4 GAL	. CND WRITER BLA GAL
	TANK-DELIVERY-REPORT	MET DEL 10260.8 GAL	1 0.ND 11.892 70 046 A
	DIFCE		P然はつか DEL LOades a load
	DIESEL 40065.4 GAL		NET DEL 19435.5 GAL
			- 1040010 BHT
-	TANK 1 (MAN 1)	FOSS MARITIME	
		9030 MW ST HELENS RD	
	BEGIN TIME	P. O. SOX 83018	FOSS MARITIME
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	BEGIN GROSS 2424. 4 %	1-503-286-0631	9 6 000 2=-
	BEGIN NET 241-7 - tal	And the state of t	PORTLAND 08766 9727
	BEGIN ULLAGE 13815 - 34	09/14/2006 ti:09 t	1 FOR NAME OF STATE
	BEGIN LEWEL 71 agn tw	Standard transfer	1-503-284-9631
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	SEGIN WATER 9.0 GAL	HAN ACTINEMA MELOKI	0 971572 0 06 9:37
	BEGIN-TEMP- 72.184 F	ATTOTI MODEL ATOMICS	TALLA DEL
	END TIME 10:41	DIESEL 40065.4 GAL	TANK DELIWERY REPORT
	END DATE 09/15/2006	TANK O 4 MARI O 3	0.7
	END GROSS 34311.3 GAL	TANK 2 (MAN 2)	DIESEL 40065/4 GAL
	END NET 34121.8 GAL		
	END ULLAGE 3750.8 GAL	BEGIN TIME 10:39	TANK 2 (MAN 2)
	END LEUEL 100.014 IN	BEGIN DATE: 09/14/2006	
		BEGIN GROSS 15836.1 GAL	BEGIN TIME 9:06
	FUB	SEGIN NET 15749,5 GAL	9591N DBH - 0971575007
	1 1	BEGIN ULLAGE 22226.9 GAL	BEGIN GROSS 13772 a co
		BEGIN LEVEL 43.819-IN	SECIN NET 13700 5 CM
		BEGIN WATER 0.000 IN	BEGIN ULLAGE 24227 2 COL
	NET DEL 10011.6 GAL	BEGIN WATER 6.0 GAL ;	BEGIN LEUEL 42.859 IN
		BEGIN TEMP 71,927.F	BEGIN WATER & GOS TH
		END-TIME 11:03	- 「原作の # + + ・ + +
		END DATE 89/14/2006	
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		END ULLAGE 11915.6 GAL	
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		END TEMP 71,430 F	67,669 IN
			CHO WATER 0.000 IN
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		: NET DEL 10260,8 GAL	- 2002 (1202) - フラーカッと -
			- ABART 144AUU E
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FOSS MARITIME 9030 NU ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-9631 10:45 09/15/2006 TANK DELIVERY REPORT 40065.4 GAL DIESEL TANK 2 (MAN 2) 10:14 BEGIN TIME 09/15/2006 BEGIN DATE 24244.9 GAL 24110.1 GAL BEGIN GROSS BEGIN HET BEGIN ULLAGE 13817.2 GAL BEGIN LEVEL 67.671 IN BEGIN WATER 9.000 IN 0.0 GAL 72.249 F BEGIN WATER BEGIN TEMP END TIME 09/15/2006 34311.3 GAL 34121.8 GAL END DATE END GROSS END NET 3750.8 GAL 90.45- IN END ULLAGE END LEUF 0.000 IN END WATER 72.143 F 18666.4 GA END WATER END TEMP GROSS DEL 10011.6 GAL NET DEL

. FOSS MARITIME 9030 NU ST HELFNS RD FOSS MARITIME -FOSS MARITIME P. O. SOX 83018 GOTO NIL ST WELLING RD 9030 NW ST HELENS RO ം. 0. 30% 83018 PORTLAND OREGON 97231 P. 0, 80X 83018 PORTLAND OREGON 97231 PORTLAND DREGON 97231 1-503-286-0631 1-503-286-0631 1-503-286-9631 09/06/2006 7:50 09/06/2006 09/06/2006 12:41 12:40 LEAK TEST REPORT LEAK TEST REPORT LEAK TEST REPORT TANK 3 6260.8 GAL TANK 2 20032,7 SAL 20032.7 GAL 30 WT OIL DIESEL DIESEL LEAK TEST 0.200 GPP LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED - 4:40 LEAK THRESHOLD 0.100 GPH LEAK TEST 0.200 GPH COMPTDENCE LEVEL LEAK_THRESHOLD 0.100 GPH TEST STARTED CONFIDENCE LEVEL 95.8% 4:40 TEST STARTED TEST STARTED 09706/2006 TEST STARTED 89/86/2006 LAST DELIVERY 20:10 LAST DELIVERY 09/01/2006 GROSS CAPACITY 62.1% BEGIN GROSS 12440.3 GAL LAST DELIVERY TEST STARTED 09/06/2006 LAST DELIVERY 08/01/2006 LAST DELIVERY 29:19 GROSS CAPACITY 62,8% LAST DELIVERY 09/01/2006 BEGIM GROSS 3932.4 GAL GROSS CAPACITY 3902.4 GAL BEGIN GROSS 10331.4 GAL BEGIN NET BEGIN MET BEGIN LEVEL 57,125 IN BEGIN NET 10257.8 GAL 12353.3 GAL BEGIN LEVEL REGIN LEVEL 60.970 TN SEGIN TEMP 76.781 F 70.879 IN BEGIN TEMP 75,657 F BEGIN WATER 0.1 GAL SEGIN TEMP 75.369 F 0.034 IN 7:50 SEGIN WATER BEGIN WATER BEGIN WATER 0.0 GAL 0.0 GAL BEGIN WATER BEGIN WATER END TIME 0.000 IN 0.000 IN 09/06/2006 END DATE END TIME 12:40 12:40 END GROSS 3932.5 GAL END DATE END DATE 9979672996 89/06/2006 7147.9 GAL 7096.2 GAL END NET END GROSS END GROSS 3902.4 GAL 9016.9 GAL END LEVEL END MET END HET 57.126 IN 8952.4 GAL 76.775 F 0.1 GAL TEMP EM0 LEVEL END LEVEL 46,000 IN END 54.832 IN SHO TEMP END WATER END TEMP 75.881 F 75.708 F END WATER END WATER .0.0 GAL END WATER 0.034 IN 0.0 GAL END WATER END WATER 0.000 IN 0.000 IN HOURLY DATA HOURLY DATA . HOURLY DATA TIME DEG F GAL 76.779 3902:43/ 76.777 39**92:**49 5:49 DEG F GAL TIME TIME DEG F GAL 5:40 6:40 5:40 75.653 22611.97 75.367 22611.97-6:49 75.619 18970.94 7:45 **2**902.49 6:49 75.815 18970.94 7:40 7:40 75.826 18971.99 75.616 18971.99 SLOPE #0.018 GAL/HR SLOPE LOW 9.017 GAL/HR SLOPE HIGH 9.019 GAL/HR 8:49 75.607 18981.86 8:49 75.824 18981.86 75.817 18973.60 75.808 18980.44 75.598 18973.60 9:49 9:40 10:40 75.589 19980.44 75.582 18992.93 10:40 TEST RESULT PASSED 11:40 11:49 75.798 18992.93 SLOPE EQUALS CALCULATED 12:49 12:40 75.881 16048.58 75.708 16048.58 LEAK RATE SLOPE SLOPE -553.219 GAL/HR -553.219 GALZHR SLOPE LO -564.986 GALZHR SLOPE HI -541.452 GALZHR TEST RESULT FAILED SLOPE LO -564.986 GAL/HR SLOPE HI -541.452 GAL/HR TEST RESULT FAILED

SLOPE EQUALS CALCULATED

LEAK RATE

SLOPE EQUALS CALCULATED

LEAK RATE

	FOSS MARITIME 9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 09/02/2006 19:25 LEAK TEST REPORT TANK ? 20032.7 GALDIESEL	GOSS MARITIME 9030 NW ST HOEMS RO P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631
=088 MARI!! (MF. 9030 NV ST HELENS RD 9030 NV 83018	09/02/2006 19:25	09/02/20 06 19:25
PORTLAND OREGON 97231 1-583-286-8631	LEAK TEST REPORT	LEAK TEST REPORT
1-503-200-500-1	TANK 2 20032-7 GAL	TANK 1 20032.7 GAL .
CEAK TEST REPORT	DIESEL	DIESEL
TANK 3 6260.8 GAL 30 WT GIL LEAK TEST 9.200 GPH LEAK THRESHOLD 9.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 97.07/2006 TEST STARTED 97.07/2006 LAST DELIVERY 98.701/2006 LAST DELIVERY 98.701/2006 GROSS CAPACITY 65.2% GROSS CAPACITY 4052.6 GAL BEGIN NET 4052.6 GAL BEGIN NET 581.981 IN BEGIN VATER 9.034 IN BEGIN WATER 9.03	LEAK TEST 8.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.0% TEST STARTED 11:25 TEST STARTED 09/02/2006 LAST DELIVERY 20:10 LAST DELIVERY 09/01/2006 GROSS CAPACITY 83.8% BEGIN GROSS 16796.8 GAL BEGIN NET 16678.0 GAL BEGIN TEMP 75.533 F BEGIN WATER 0.0 GAL BEGIN WATER 0.0 GAL BEGIN WATER 9.000_IN END TIME 19:24 END_DATE 99/02/2006 END GROSS 16797.3 GAL END NET 16678.4 GAL END LEVEL 93.002 IN END TEMP 75.549 F END WATER 0.0 GAL END WATER 0.0 GAL	LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 95.00 TEST STARTED 11:25 TEST STARTED 09/02/2006 LAST DELIVERY 20:10 LAST DELIVERY 99/01/2006 GROSS CAPACITY 85.60 BEGIN GROSS 17146.6 GAL BEGIN NET 17026.9 GAL BEGIN LEVEL 95.003 IN BEGIN TEMP 75.337 F BEGIN WATER 0.000 IN END TIME 19:24
END LEVEL 76.992 F	HOURLY DATA	HOURLY DATA
12:24 76.996 4852.48 13:24 76.993 4852.48 14:24 76.993 4852.48	HOURLY DATA TIME DEG F GAL. 12:24 75.535 33714.24 13:24 75.537 33701.70 14:24 75.540 33700.86 15:24 75.542 33700.88 16:24 75.544 33700.11 17:24 75.546 33700.29 18:24 75.547 33691.43 19:24 75.549 33708.12	TIME
SLOPE -0.967 GAL/HR SLOPE LOW -0.969 GAL/HR SLOPE HIGH -9.965 GAL/HR SLOPE HIGH -9.965 GAL/HR PASSED TEST RESULT SLOPE EQUALS CALCULATED LEAK RATE	SLOPE -1.265 GAL/HR SLOPE LOW -1.324 GAL/HR SLOPE HIGH -1.206 GAL/HR TEST RESULT FAILED SLOPE EDUALS CALCULATED LEAK RATE	SLOPE -1.265 GALVHR SLOPE LOW -1.324 GALVHR SLOPE HIGH -1.206 GALVHR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE

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	9030 NW ST HELENS PA	- O SON SONIS
,	9 0 000 070 0	MURTLAND OREGON 97231
	DODELAND DEFENDING	1-50X-286-0631 .
	PORTLAND OREGON 9723;	a season which the
·	1-593-286-9631	55
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FOSS MARITIME	99/91/2006 20:41	TANK DELIVERY REPORT
PRISE NILL ST HELENS RO		COME ACTINED RESOLUTION
	TANK OF THESE SECONDS	
5. 0. 30X 83018	TANK DELIVERY REPORT	DIESEL 40065.4 GAT
PORTLAND DREGON 97231		1 -
1-503-286-0631	DIESEL 40065.4 GAL	
1 200 200 2003	The same of the same	TANK 1 (MAN 1)
00.7.	T/36/6/ 3 / 34/66 8	
09/31/2006 23:59	TANK-1-(-MAN-1-)	BEGIN TIME 18:55 BEGIN DATE 09/01/2006
7.8 C 7.8 S		MEGRU BANK AN AL LES
TAME INDESTROY Server	BEGIN TIME 20:10 BEGIN DATE 09/01/2006	ŞEGIN DATE 109/01/2006
TANK INVENTORY DETAIL	REGIN DATE GO OF BOOK	BEGIM GROSS 13885.9 GAL
· ·	The state and the state of the	BEGIN NET 13786.5 GAL
TANK (BEGIN GROSS 24005.9 GAL	
	H BEGIN MET OKOKO K GAL	BEGIN ULLAGE 24176.2 GAL
TOKIN NO. 4 ALLES	BEGIN ULLAGE 14056.2 GAL	BEGIN LEVEL 45.549 IN
TANK NO. 1 20032.7 GAL	- DECATA TECHNIC TAMOR*** 発展[BEGIN WATER 9.900 TH
MANIFOLD MAN I	BEGIN LEUEL 71.292 IN	OFFITH HATES A S - 1
MANIFOLD MAN 1 PRODUCT DIESEL	I KNIJN NATED A ASA S. :	BEGIN WATER 0.0 GAL
GROSS 7975 7 CAL	BEGIN WATER A A A A	BEGIN TEMP 75.451 F
	OFCTは Trees - U. V. Ville	FND TIME toloo
- 1 - 25.1 - 7905 & 6A.	BEGIN WATER 0.0 GAL BEGIN TEMP 75.163 F END TIME	END DATE 09/01/2006
PROD (FUEL 45, 654 TN	END TIME 20:27 END DATE 99/01/2006	EUR NUTE 02/N1/2008
PROD FUEL 45.654 IN	END DATE BOOK	END GROSS 24029.3 GAL
GROSS CAPACITY 35.3%	ZNO COCCO SIZNO (N ZOBE	END NET 23861.3 GAL
	180 08055 33967.7 GA	
TEMPERATURE REFERE	i EMD MET 33729 6 GAI	
TEMPERATURE 75.543 F WATER LEVEL 0.000 IN	END ULLAGE 4894 4 GAI	END LEVEL 71,405 IN
L WATER LEVEL 0.000 IN TO 1		—— -END WATER 0.000 IN
WATER VOLUME 9.9 GAL	1 - COM LEVEL - 95 (51 1N -	
(1, g. 2) (1, l)		
i.	END WATER 0.0 GAL END TEMP 75 27% S	END TEMP 75.182 F
	CHO TEND N. M. PH.	6 2 099
" TANK 2	END TEMP 75.273 F	
	UKUSS DEL - 9961,7 GAL	NET DEL 10074.8 GAL
TANK NO. 2 20032.7 BAI	NET DEL 9891 3 GAL	
	NET DEL 9891.3 GAL	
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TOTAL VICENTIAL PROPERTY I		
MAN (FOLD MAN 1		
PRODUCT DIESEL		FOSS MARÍTIME
PRODUCT DIESEL 6832,9 GAL	F500 WY	FOSS MARITIME 9030 NW ST HE SWS EN
*RODUCT DIESEL	FOSS MARITIME	FOSS MARITIME 9030 NW ST HELENS RD
*RODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL	FOSS MARITIME 9030 NV ST HELENS PO	FOSS MARITIME 9030 NW ST HELENS RD P. G. BOX 83018
*RODUCT DIESEL GROSS 6832.9 GAU MET 6782.6 GAL PROD LEUEL 44.483.78	FOSS MARITIME 9030 NV ST HELENS RD P. O. BOY OSA10	FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 74.10	FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018	FOSS MARITIME 9039 NW ST HELENS RD P. C. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198 1 CAL	FOSS MARITIME 9030 NV ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231	FOSS MARITIME 9030 NW ST HELENS RD P. G. BOX 83018 PORTLAND OREGON 9723: 1-503-286-9631
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198 1 CAL	FOSS MARITIME 9030 NV ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PROD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F	FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.17 ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.900 IN	1-503-286-0631	FOSS MARITIME 9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.17 ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.900 IN	1-503-286-0631	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 89/01/2006 19:28
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PROD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F	FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.17 ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.900 IN	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.17 ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.900 IN	1-503-286-0631	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEVEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER VOLUME 0.0 GAL	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 89/01/2006 19:28
PRODUCT DIESEL GROSS 6832.9 GAU NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.17 ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.900 IN	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER UCLUME 0.0 GAL TANK 3	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PROD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER UOLUME 0.0 GAL TANK 3 TANK NO. 3 6260.8 GAL	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.888 IN WATER UOLUME 9.8 GAL TANK NO. 3 6268.8 GAL PRODUCT 38 WT OT	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL TANK 2 (MAN 2)
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER UOLUME 0.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL TANK 2 (MAN 2) BEGIN TIME 18:55
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER UOLUME 0.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS 4084.4 GAL	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL TANK 2 (MAN 2) BEGIN TIME 18:55 BEGIN DATE 09/01/2006
PRODUCT DIESEL GROSS 6832.9 GAL NET 6782.6 GAL PPOD LEUEL 44.487 IN GROSS CAPACITY 34.1% ULLAGE 12198.1 GAL TEMPERATURE 76.167 F WATER LEVEL 9.000 IN WATER UOLUME 0.0 GAL TANK 3 TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS 4084.4 GAL NET 4052.6 GAL	1-503-286-0631 09/01/2006	9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631 09/01/2006 19:28 TANK DELIVERY REPORT DIESEL 40065.4 GAL TANK 2 (MAN 2) BEGIN TIME 18:55 BEGIN DATE 09/01/2006
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FOSS MARITIME 9030 NW ST HELENS RD-PORTLAND OREGON 97231 . FOSS MARITIME 9030 NW ST NELENS RD 1-503-286-0631 P. C. BOX 83018 PORTLAND DREGOM 97231 99/91/2996 7159 - t-503-286-0631 LEAK TEST REPORT 09/01/2006 7:59 FOSS MARITIME TANK 2 20032,7 GAL 9030 NW ST HELENS RD LEAK TEST REPORT ം. 0. 30X 83018 PORTLAND OREGON 97231 TANK 1 20032.7 GAL DIESEL 1~503-286-0631 LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH 015SEL 3:69 09/01/2006 95.8% CONFIDENCE LEVEL LEAK TEST 9.200 GPH TEST STARTED 23:59 TEST STARTED 08/31/2006 LEAK THRESHOLD 0.100 GPH LEAK TEST REPORT CONFIDENCE LEVEL 95,0% 17:20 LAST DELIVERY TEST STARTED 23:59 TANK 3 6260.8 GAL LAST DELIVERY 08/29/2006 GROSS-CAPACITY----34.1% TEST STARTED 08/31/2006 LAST DELIVERY 17:20 30 WT OIL OXUSS CHITTUTTY 34.17.
BEGIN GROSS 6832.9 OAL
BEGIN NET 6782.7 GAL LAST DELIVERY 08/29/2006 9.200 GPH GROSS CAPACITY 35.3% BEGIN GROSS 7075.7 GAL LEAK TEST 44,487 TN 76,167-F 0,0 GAL LEAK THRESHOLD 0.100 GPH BEGIN LEVEL 7025.6 GAL CONFIDENCE LEVEL 95,0% REGIN NET SEGIN TEMP IEST STARTED----23:59 BEGIN-LEVEL 45,654 JN BEGIN WATER -9.000-IN BEGIN WATER END TIME TEST STARTED 08/31/2006-BEGIN TEMP 75,543 F LAST DELIVERY 7:58 7:51 BEGIN WATER 0.0 GAL 09/01/2006 LAST DELIVERY 08/01/2006 BEGIN WATER 0.000 IN END DATE 6832.5 GAL GROSS CAPACITY 65.2% END TIME END GROSS 6782.4 GAL 09/01/2006 7077.3 GAL 7027.4 GAL **BEGIN GROSS** 4984,4 666 END DATE END NET 44,485 IN END GROSS BEGIN NET 4052.6 GAL END LEVEL 76.092 F 58.984 IN 77.111 F 2.1 OAL BEGIN LEVEL END NET CND TEMP ดูเด GAL END LEVEL 45,662 IN BEGIN TEMP END WATER 0.000 IN BEGIN WATER 75.504 F END WATER 0.033 IN 3:08 END WATER A. A. GAL BEGIN WATER END TIME HOURLY DATA END WATER 0.000 IN 09/01/2006 4084.4 GAL END DATE DEG F GAL END GROSS HOURLY DATE TIME 76.158 13813.24 END NET 4052.6 GAL 9:58 76.148 13801.10 END LEVEL 58,984 IN TIME . DEG F GAL 1:58 76.139 13807.10 75,538 13813.24 END TEMP 77,103 F 0:58 2:58 13803.16 END WATER 0.1 GAL 76.129 1:58 75.533 13801.10 **3:5**8 76.120 13806.22 75.529 13897.10 75.524 13803.16 END VATER 0.034 IN 2:58 4:58 76.111 13806.26 76.101 13799.93 3:58 5:58 HOURLY DATA 4:58 75,519 13896,22 6:58 76.092 13809.83 75.514 13806.26 75.509 13799.93 5:58 7:58 6:58 TIME DEG F GAL 0.735 GAL/HR 0:58 77.109 4052.67 7:58 75.504 13809.83 SLOPE SLOPE LOW - 0.677 GALVHR SLOPE HIGH 0.792 GALVHR TEST RESULT INCREASE 1:58 77,106 4052.66 2:58 SLOPE 77,104 4052.69 Й, 735 GALZHR SLOPE LOW 0.677 GAL/HR SLOPE HIGH 0.792 GAL/HR TEST RESULT INCREASE SLOPE EQUALS CALCULATED. SLOPE 0.009 GAL/HR SLOPE LOW 0.008 GAL/HR EAK RATE SLOPE EQUALS CALCULATED LEAK RATE SLOPE HIGH 0.010 GAL/HR

TEST RESULT

LEAK RATE

SLOPE EQUALS CALCULATED

PASSED

FOSS MARITIME ARKA NN ST HELENE RD ST HELENS RD ⊃. O. 90X 83018 BOX 83018 PORTLAND OREGON 97231 PORTLAND OREGON 9723). 1-503-286-0631 1-503-286-9631 FOSS MARITIME SAKA HU ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 19/91/2996 3:09 . 13:96 10/03/2006 1-503-286-0631 LEAK TEST REPORT LEAK TEST REPORT 6260.8 GAL . - 20032.-7-945 09/30/2006 JANK INVENTORY DETAIL 30 NT OIL 0.200 GPH LEAK TEST LEAK TEST 9.200 GPM TANK 1 LEAK THRESHOLD 0.100 GPH SAK THRESHOLD 0.100 GPH 20032.7 GAL CONFIDENCE LEVEL COMPIDENCE LEVEL TEST STARTED 95.0% 5:06 TANK NO. 1 MAN 1 23:59 TEST STARTED MANIFOLD TEST STARTED 10/03/2006 LAST DELIVERY 5:53 DIESEL TEST-STARTED 09/30/2006 PRODUCT LAST DELIVERY 7:51 3417.9 GAL 5:53 GROSS 3400.4 GAL LAST DELIVERY U. GROSS CAPACITY 58.4% LAST DELIVERY 10/01/2006 HET PROD LEVEL 27.021 IN GROSS CAPACITY 17.02 ULLAGE 15613.1 GAL GROSS CAPACITY 62.4% BEGIN GROSS 12509,9 GAL BEGIN NET 12458,6 GAL BEGIN GROSS SEGIN NET 3508.0 GAL 12458.6 GAL 71.277 F 52.268 IN 73.527 F 0.1 GAL BEGIN LEUEL 71,210 IN BEGIN TEMP 69.022 F TEMPERATURE WATER LEVEL BEGIN LEVEL SEGIN-TEMP 0.000 IN 59.022 F 0.0 GAL 0.0 GAL BEGIN WATER WATER VOLUME BEGIN WATER BEGIN WATER BEGIN WATER 0.000 IN 17:06 0.037 IN 3:08 END TIME <u>ENO</u>_DATE. 10<u>201</u>22006-3529.7 GAL JAD ONTE TANK 2 42517-8-GAL END GROSS EMD_GROSS - --20032.7 GAL END NET 12466.0 GAL FIND-NETT-3508.0 GAL TANK NO. 2 MAN 1 END LEVEL 52,268 IN END LEVEL 71.247 [N MANIFOLD OND TEMP DIESEL 73,520 F 69.087 F 0.0 GAL END TEMP PRODUCT 1437.1 GAL END WATER 0.1 GAL END WATER GROSS 0.000 IN 1429.4 GAL 0.037 IN END WATER END WATER NET PROD LEVEL GROSS CAPACITY HOURLY DATA HOURLY DATE 17594.0 GAL 71.741 F ULLAGE DEG F GAL TEMPERATURE TIME TIME DEG F GAL 9.000 IN 73.525 3508.08 មិះ58 É DÉ 69.031 24993.56 WATER LEVEL 0.0 GAL 1:58 73.523 3508.10 WATER VOLUME 69.037 24988.28 7:96 73.521 3508,11 8:06 69.044 24989.34 69.052 24990.15 9:06 TANK 3 · 0,005 GAL/HR SLOPE 10:06 ---69-060-24992-181 SLOPE LOW 9,004 GAL 419 69.068 24987.46 69.077 24985.27 11:06 SLOPE HIGH 0.006 GAL/HR TEST RESULT PASSED ,6260.3 GAL TANK NO. 3 12:06 30 WT OIL 13:06 69.087 24991.61 PRODUCT 3529.7 GAL SLOPE EQUALS PALCULATED GROSS SLOPE -0.740 GALZHR SLOPE LOW -0.276 GALZHR SLOPE HIGH -0.203 GAZZHR 3508.0 GAL LEAK RATE NET 52.268 IN 56.4% PROD LEVEL GROSS CAPACITY 2418.0 GAL TEST RESULT ULLAGE 73.527 F SLOPE EQUALS CALCULATED TEMPERATURE 0.036 IN LEAKTRATE WATER LEVEL 0.1 GAL WATER VOLUME EOSS MARITIME
9878 NW ST HELENS RO
P. O. BOX 83818
P.O. BOX 97231
PORTLAND OREGON 97231
1-583-286-8631 LEAK TEST A B. 200 GPH
LEAK THRESHOLD 0.100 GPH
LEAK THRESHOLD 0.100 GPH
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEUEL 5:06
TEST STARTED 10/03/2006
TEST S 7196 6:96 7:96 9:96 11:96 11:96 LEAK TEST REPORT #G DEG F 68.675 68.690 68.795 68.719 68.733 68.736 68.775 -8, 241 -8, 277 -8, 284 GAL 24986.16 24992.59 24988.17 24986.95 24986.95 24992.69 24992.55 24986.32

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į		9030 NW ST PELENS RO P. 9. 90% 83018 PORTLAND OREGON 9723: 1-503-286-963:		1-503-286-0631	Market Assertion of the Control of t
	,	2006/11/01 15114		LEAK TEST REPORT TANK: 2 20032.7 GAL	FOSS MARITIME 9030 NW ST HELENS RD
		LSAK TEST REPORT TANK : 20032.7 GAL		DIESEL LEAK TEST 0.200 GPH	P. 0. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631
<u></u>		LEAK TEST - a 200 cou		CONFIDENCE LEVEL 99.00 TEST STARTED - 7:14	2996/19/31 23:59
	!	CONFIDENCE LEVE: 99.82 TEST STARTED		TEST STARTED 2006/11/01 LAST DELIVERY 19:17 LAST DELIVERY 2006/10/30 GROSS CAPACITY 46.37	TANK INVENTORY DETAIL TANK 1
	.	LAST DELIVERY 19:17 LAST DELIVERY 19:17 LAST DELIVERY 2006/10/30 GROSS CAPACITY 10:00		BEGIN GROSS 9284.8 GAL BEGIN NET 9270.1 GAL BEGIN LEVEL 56.085 IN BEGIN TEMP 63.480 F	TANK NO. 1 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL CROSS 10000.1 GAL
		BEGIN GROSS 10000.5 GAL BEGIN NET 9983.7 GAL BEGIN LEVEL 59.426 IN BEGIN TEMP 63.687 F BEGIN WATER 9.0 GAL		BEGIN WATER 0.0 GAL SEGIN WATER 0.000 IN END TIME 15:14 END DATE 2006/11/01	9983.6 GAL NET 9983.6 GAL PROD LEUEL 59.424 IN GROSS CAPACITY 49.9% GROSS CAPACITY 49.9%
		BEGIN WATER 0.000 IN END TIME 15:14 END DATE 2006/11/01		END GROSS 9285.1 GAL END NET 9279.0 GAL END LEVEL 56.086 IN END TEMP 63.584 F	ULLAGE 9831.0 GAL TEMPERATURE 63.611 F WATER LEVEL 0.000 IN WATER UOLUME 0.0 GAL
		END GROSS 10006; 9-GAL SHOP NET 9983, 9 GAL END LEVEL 59.428-IN END TEMP 63.758 F		END WATER 0.000 IN	TANK 2
		END WATER 0.0 GAL END WATER 0.000 IN		HOURLY DATA	TANK ND. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL
	,	HOURLY DATA		8:14 63.494 19254.33 9:14 63.507 19254.25 10:14 63.520 19254.17 11:14 63.533 19254.04	GROSS 9284.6 UHL NET 9270.3 GAL PROD 1 FUFL 56.084 IN
		8:14 63.697 19254.26 9:14 63.706 19254.27 10:14 63.714 19254.09 11:14 63.724 19254.12 12:14 63.733 19253.84		12:14 63.536 19253.77 13:14 63.558 19253.87 14:14 63.571 19253.72 15:14 63.584 19253.87	GROSS CAPACITY 46.3% ULLAGE 9746.5 GAL TEMPERATURE 63.379 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL
		13:14 63.741 19253.67 14:14 63.750 19253.54 15:14 63.758 19253.78		SLOPE -0.081 GAL/HR SLOPE LOW -0.083 GAT/HR SLOPE HIGH -0.078/6AL/HR	TANK 3
		SLOPE -0.081 GAL/HR SLOPE LOW -0.083 GAL/HR SLOPE HIGH -0.078 GAL/HR TEST RESULT PASSED		TEST RESULT PASSED SLOPE EQUALS PALCULATED LEAK RATE	TANK NO. 3 6260.8 GAL PRODUCT 30 WT OIL GROSS 2349.1 GAL NET 2340.8 GAL
		SLOPE EQUALS CALCULATED LEAK RATE			PROD LEVEL 38.126 IN GROSS CAPACITY 37.5%
_			Ì		TEMPERATURE 67.738 F WATER LEVEL 0.035 IN WATER VOLUME 0.1 GAL
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	Į.	TIME DEG 8:14 67. 9:14 67. 9:14 67. 10:14 67. 8LOPE LOW -0 SLOPE HIGH -0 SLOPE EQUALS SLOPE EQUALS LEAK RATE	 <u>.</u>	英国連門海道英国 サーニー・コード マラック	90X0 NU S P. O. B PORTLAND O 1-503- 1-503- 2006/11/01 150K TEST 150K TEST COMPLOSMOES TEST STARTE TEST STARTE
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		EG F GAL 57.638 2340.96 57.617 2340.94 57.605 7340.94 -0.005 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR -0.007 GAL/HR	DD-10 .	⊸ "	T HELENG PRESENCE PARELENG PRESENCE PARELENG PRESENCE PARELENG PRESENCE PARELENG PAR
1	;	GAL 2346.96 2346.96 2346.96 2346.94 2346.94 7 GAL HR PASSED CULATED	1 1	96.795.755.755.755.755.755.755.755.755.755	#ELENC FY 87818 87818 90N 9777 10119

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			1-503-286-0631	
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	E000 WALL		2006/10/11 19:47	distance of
	FOSS MARITIME	:	LEAK TEST REPORT	. FOSS MARITIME PARA NH ST HELENS RD
	9030 NW ST HELENS RD P. 0. BOX 83018	<u>;</u> 1	CERK (COL REPORT	9030 NW ST HELENS RD
•			TANK 1 20032.7 GAI	9. 0. 80X 83018
	1-503-286-0631	Į į	1111111	PURTEANU UREGUM 97231
	2004		TANK 1 20032.7 GAL DIESEL	; ; ; ; ; ; ; ; ; ;
	2006/18/11 19:47 LEAK TEST REPORT			2006/10/11 14:57
	LEAK THON	[]	LEAK TEST 0.200 GPH ::	
	LEST REPORT-		LEAK THRESHOLD 0.100 GRH CONFIDENCE LEVEL 99.07 TEST STARTED 11:47	LEAK TEST REPORT
	TANK-2- 29032.7 GAL			
	20002.7 GAL		. TECTCTACTED2006./10./11	The second secon
	DIESEL		LAST DELIVERY 16:12	———— বল এক এক
	1	,		SO WE OAL .
	LEAK TEST 0.200 GPH	ļ ļ	GROSS CAPACITY 31.7%	LEAK TEST 0.200 GPH
	LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.8V		BEGIN GROSS 6356,1 GAL BEGIN NET 6329:4-GAL	LEAK THRESHOLD 0.100 GPH
	TEST STARTER 99.02	,	BEGIN NET 6329.4-GAL BEGIN LEVEL 42.175 IN	CONFIDENCE LEVEL 99.0%
	- 1 (ドラチ CTADTes - うんきサイ		BEGIN TEMP 69.235 F	TEST STARTED 11:47
	LAST DELIVERY 16:12		BEGIN WATER 0.0 GAL	TEST STARTED 2006/10/11 LAST DELIVERY 7:51
	LAST DELIVERY 2006/10/10			LAST DELIVERY 2006/08/01
	GROSS CAPACITY 2006/10/10 BEGIN GROSS 20.8%		END TIME 19:47 END DATE 2006/10/11	GROSS CAPACITY 52.9%
	DEC 11 00000 41/4.3 GAL		END DATE 2006/10/11 END GROSS 6356.0 GAL	BEGIN GROSS 3254.8 GAL
	BEGIN FUEL 4156.8 GAL		END GROSS 6356.0 GAL	BEGIN WET 3236.9 GAL
	SEGIM TEMP 111447 IN	1	END LEVEL 42,175 IN	BEGIN LEVEL 48.983 IN
	1 MEDIU 11444 - 1177 AND 14	1	FND TEMP 69.237 F	BEGIN TEMP 72.947 F
	BEGIN WATER 0.0 GAL END-TIME 0.000 IN	1	END TEMP 69.237 F END WATER 0.0 GAL	BEGIN WATER 0.1 GAL - BEGIN WATER 0.037 IN
	19:42		END WATER 0.000 IN	END_TIME 14:56
	1. Eug 2006/10/11		END WATER 0.000 IN HOURLY DATA	END-DATE 2006/10/11
	END NET ILLE COM		HOURLY DATE	CUN DECODO DÁGAS A DUT
	[END LEUF: '축가' :스 네티	1	TIME DEG F GAL	END NET 3236.6 GAL
-			12:46 69.234 10487.27	END LEVEL 48.979 IN
1		1	13:46 69.234 10486:02	END TEMP 72.027 F END WATER 0.1 GAL
- 1	END WATER 9.000 IN		14:46 69.234 10487.01	END WATER 0.037 IN
- 1	Barron		15:46 69.234 10487.27	CONTRACT ASTACLANDS A PROPERTY AND THE
İ	ĺ		14:46 69.234 10487.01 15:46 69.234 10487.27 16:46 69.235 10487.27 17:47 69.235 10487.70	HOURLY DATA
1	TIME DEG F GAL		18:46 69.236 10487.50	
- 1	12 7 57, 205 10407 on 1		19:47 69.237 10486.57	TIME DEG F GAL
	97.290 10402 AA			. 12:46 72.042 3237.00 13:46 72.031 3236.81
}	ヤフェZれと 1040フ カェ		SLOPE 0.067 GAL/HR	14:46 72.026 3236.71
	97.401 10497 00		SLOPE LOW 0.059 GAL/HR SLOPE HIGH 0.075 GAL/HR	
	17:47 69.201 10487.27 18:46 69.201 10487.70		TEST RESULT PASSED	SLOPE -0.098 GAL/HR
1	- '' D™ /MM 1046≒ ←.		SLOPE EQUALS CALCULATED	SLOPE LOW -0.100 GAL/HR
}·	19:47 69.201 10486.57		LEAK RATE	SLOPE HIGH -0.097 GALZHR
<u>}</u>	el ose			TEST RESULT PASSED SLOPE EQUALS CALCULATED
1	SLOPE LOW S. MEZ GALZHR		1	LEAK RATE
	SLOPE HIGH B. 659 GAL/HR			5.
1	TEST RESULT PASSED			
	PLUPE FOHALE CALOUR 10000			
1	LEAK RATE		·	
1				T. Control of the Con

-0999 MARITIME 9030 NG ST UTIFHS RO 9 0. BOX 83018 PORTLAND OREGON 9723: 1-803-286-0631 2006/10/12 3:09	FOSS MARITIME 9030 NW ST HELENS RD P. 0. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631 2006/10/12 7:59 LEAK TEST REPORT	P. O. SOX 83018 PORTLAND ORESON 9723: 1-503-286-9631 2006/19/12 7:59 LEAK TEST REPORT
÷ (1)	TANK 2 20032.7 GAL	TANK 1 20032,7 GAL
TANK 7 6260,8 GAL	DIESEL	OIESEL
TAK TEST	LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 2006/10/11 LAST DELIVERY 16:12 LAST DELIVERY 2006/10/10 GROSS CAPACITY 20.8% BEGIN GROSS 4175.3 GAL BEGIN NET 4157.8 GAL BEGIN LEVEL 31.134 IN BEGIN TEMP 69:197 F BEGIN WATER 0.000 IN END TIME 7:58 END DATE 2006/10/12 END GROSS 4176.1 GAL END NET 4158.6 GAL END NET 4158.6 GAL END LEVEL 31.138 IN END TEMP 69.191 F END WATER 0.000 IN	LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEUEL 99.0% TEST STARTED 2006/19/11 LAST DELIVERY 16:12 LAST DELIVERY 2006/10/10 GROSS CAPACITY 31.7% BEGIN GROSS 6357.1 GAL BEGIN NET 6330.4 GAL BEGIN HEUEL 42.189 IN BEGIN HEMP 0.0 GAL BEGIN WATER 0.000 IN END TIME 7:58 END DATE 2006/10/12 END GROSS 6357.1 GAL END NET 6330.5 GAL END NET 6320.5 GAL END LEVEL 42.180 IN END TEMP 69.227 F END WATER 0.000 IN
END WATER 0.038 IN	HOURLY DATA	HOURLY DATA
HOURLY DATA TIME DEG F GAL 0:59 71.949 3236.94 1:58 71.940 3236.93 2:52 71.929 3236.99 - SLOPE 9/017 GAL/HR SLOPE LOW 0.016 GAL/HR SLOPE HIGH 0.018 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE	TIME DEG F GAL 0:5869.197-10488.31 1:58 69.196 10488.27 2:58 69.196 10488.35 3:58 69.194 10488.46 4:58 69.193 10488.62 5:58 69.192 10488.63 6:58 69.192 10488.74 7:58 69.191 10489.08 SLOPE 0.105 GAL/HR SLOPE LOW 0.097 GAL/HR SLOPE HIGH 0.112 GAL/HR TEST RESULT INCREASE SLOPE EQUALS CALCULATED LEAK RATE	CLOSE HIGH P. 112 GALZHR
	1	

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 2006/12/01 19:31 LEAK TEST REPORT TANK 2 -----20032.7 GAR COSS MARITIME COS CO DIESEL 3, 9, 90X 83818 PORTLAND OREGON 97231 0.100 GPH LEAK TEST LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0% 14:32 11:37 TEST STARTED 2006/12/01 TEST STARTED 2006/12/01 LEAK TEST REPORT LAST DELIVERY 11:20 6269.8 GAL LAST DELIVERY 2006/11/30 70.9% GROSS CAPACITY TANK 3 BEGIN GROSS [14196].8 [GAL] 30 MT OIL BEGIN NET 14260.7 GAL BEGIN LEVEL 8,188 GPH 79.380 IN EAK TEST 0.198 GPH BEGIN TEMP 50,089 F BEGIN WATER -0.0-GAL TEAK CONFIDENCE LEVEL BEGIN-WATER 0.900_IN 11:37 END TIME TEST STARTED 19:37 2006/12/01 TEST STARTED END DATE 2006/12/01 LAST DELIVERY FND GROSS 8897.9 GAL LAST DELIVERY 2006/08/01 END HET 8928.8 GAL 26.7% GROSS CAPACITY 1673.2 GAL 1673.2 GAL 29.718 IN END LEVEL 54.275 IN BEGIN GROSS END TEMP 52.327 F END WATER 0.0 GAL BEGIN HET END WATER BEGIN LEVEL 60.035 F 0.000 IN BEGIN TEMP 0.1 GAL BEGIN WATER HOURLY DATA 9.929 IN BEGIN WATER 14:32 END TIME 2006/12/01 1673.2 GAL 1673.2 GAL END DATE END GROSS 29.789 IN END HET END LEVEL 59.976 F END TEMP. 0.1 GAL END WATER 9.928 IN END WATER

0.000 IN END WATER HOURLY DATA

FOSS MARITIME

P. O. BOX 83018 PORTLAND OREGON 97231

9030 NW ST HELENS RD

1-503-286-0631

LEAK TEST REPORT

DIESEL

LEAK THRESHOLD 0.050 GPH

TEST STARTED 2006/12/01

LAST DELTUERY 2006/11/30

2006/12/01

TANK 1

LEAK TEST

CONFIDENCE LEVEL

TEST STARTED

LAST DELIVERY

GROSS-CAPACITY

BEGIN GROSS

BEGIN LEVEL

BEGIN TEMP

BEGIN WATER

BEGIN WATER

END TIME

END DATE

END GROSS

END LEVEL

END TEMP

END WATER

END NET

BEGIN NET

19:37

20032.7 GAL

0.100 GPH

99,0%

11:37

11:20

74.5%

14917.1 GAL

14984.8 GAL

82.990 IN

49.994 F

0.0 GAL

0.000 IN

2006/12/01

9884.5 GAL

9921.5 GAL

58,885 IN

51,742 F

0.0 GAL

19:37

TIME 12:37 13:37 14:37 15:37 16:37 17:37 18:37 19:37	0E6 F 50.037 50.079 50.109 50.313 50.658 51.022 51.387 51.742	GAL 29245.13 29245.01 25266.68 18846.25 18847.92 18849.99 18848.52 18850.37
SLOPE L SLOPE H TEST RES SLOPE EQ LEAK RAT	-1879.8 -1807.2 WLT WALS CA	59 GAL/HR 46 GAL/HR

TIME 12:37 13:37 14:37 15:37 16:37 17:37 18:37 19:37	50.174 50.310 50.570 51.060 51.500	GAL 29245, 13 29245, 01 25266, 68 18846, 25 18847, 92 18849, 99 18848, 52 18850, 37
SLOPE L	-1843.55 -1879.65 -1807.24 SULT	9 GAL/HR 6 GAL/HR

SLOPE EQUALS CALCULATED

LEAK RATE

HOURLY DATA

TIME 12:37 13:37	DEG F GAL 60.010 1673.28 59.989 1673.27
SLOPE SLOPE L	-0.002 GAL/HR OW -0.004 GAL/HR ITGH -0.001 GAL/HR PASSED
SLUPE TEST RI	EQUALS CALCULATED

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2006/12/05

14:57

LEAK TEST REPORT

TANK 2

20032.7 GAL.

51.603 F 0.0 GAL

0.000 IN

DIESEL

LEAK TEST REPORT

FOSS MARITIME 9030 NW ST HELENS RD

P. 0. BOX 83018

PORTLAND GREGON 9723:

1-503-286-0631

TANK 1

20032.7 GAL

14:56

CONFIDENCE LEVEL TEST STARTED
TEST STARTED LAST DELIVERY 9836.9 GAL 9878.7 GAL BEGIN NET BEGIN LEVEL 58.663 IN BEGIN TEMP 50.546 F BEGIN WATER BEGIN WATER END TIME END DATE 2006/12/05 END GROSS 9246.5 GAL 9283.8 GAL END NET END LEVEL 55.906 IN END TEMP 51.093 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

DEG F GAL 5**9.75**7_{.1}8393.39 7:56 8:56 50.844 17645.94 9:56 50.889 17645.86 50.931 17645.94 50.971 17645.75 51.010 17645.96 51.051 17645.82 14:56 51.093 17645.98

SLOPE -137.384 GAL/HR SLOPE LO -144.616 GAL/HR SLOPE HI -130.151 GAL/HR TEST RESULT FAILED SLOPE BATE LEAK RATE

-2006/12/05

DIESEL .

LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH 6:56 2006/12/05 17:35 LAST DELIVERY 2006/12/04 GROSS CAPACITY 49.1% BEGIN GROSS 9836.9 GAL 0.0 GAL 0.000 IN 14:56

TIME 10:56 11:56. 12:56 13:56

LEAK TEST------ 0:100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 6:56 TEST STARTED 2006/12/05 LAST DELIVERY 17:35 LAST DELIVERY 2006/12/04
CAST DELIVERY 2006/12/04
GROSS CAPACITY 47.2%
BEGIN GROSS 9450.2 GAL
BEGIN NET 9488.2 GAL
BEGIN LEVEL 56.858 IN BEGIN LEVEL BEGIN TEMP 51.133 F 0.0 GAL 0.000 IN 14:56 BEGIN WATER BEGIN WATER END TIME END DATE 2006/12/05 8330.3 GAL END GROSS END NET 8362.0 GAL 51.611 IN

HOURLY DATA

END LEVEL

END TEMP

END WATER

END-WATER-

TIME DEG F GAL ~ 7:56 51.238 18388,77 8:56 51.324 17646.07 9:56 51.384 17645.89 19:56 11:56 51.430 17645.91 51.474 17645.81 51.517 17645.75 12:56 51.560 17645.79 13:56 14:56 51.603 17645.94

SLOPE -137.158 GAL/HR SLOPE LO -144.387 GAL/HR SLOPE HI -129.930 GAL/HR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE

HOURLY DATA

FOSS MARITIME

P. O. 80X 83018

PORTLAND OREGON 97231

2006/12/07

TANK 1

LEAK TEST

TEST STARTED

BEGIN NET

BEGIN LEVEL

BEGIN_TEMP__

BEGIN WATER

BEGIN WATER END TIME

END DATE

END GROSS

END HET

END LEVEL

END TEMP

END WATER

END WATER

1-503-286-0631

LEAK TEST REPORT

DIESEL

LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0%

TEST STARTED 2006/12/07 LAST DELIVERY 5:46

LAST DELIVERY 2006/12/07 GROSS CAPACITY 77.6%

BEGIN GROSS 15552.0 GAL

22:13

20032.7 GAL

9.100 GPH

15632.8 GAL

86.258 IN 48.545 F

0.0 GAL

0.000 IN 22:13

2006/12/07 15554.7 GAL

15632.9 GAL 86.272 IN

48.916 F 0.0 GAL

0.000 IN

14:13

9030 NU ST HELFNS PO

DEG F GAL TIME 48.603 27839.85 15:13 16:13 48.654 27839.69 48,703 27839.81 17:13 27839.63 18:13 48.751 48.796 48.839 27839.40 19:13 27839.32 20:13 48,877 27839.30 21:13 48.916 27839.37

SLOPE -0.018 GAL/HR SLOPE LOW -0.022 GAL/HR SLOPE HIGH -0.014 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITINE 30 NW ST HELENS RD P. O. BOX 83818 TLAND OREGON 97231 1-503-286-0631 28832.7 TEST REPORT PORTLAND 9P.3P ÇN

0.100 GPH
LD 0.050 GPH
EVEL 99.0%
14:13
2006/12/07
Y 2006/12/07
TV 69.6%
12139.6 GAL
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DATE HOURLY

GAL 27839,85 27839,69 27839,63 27839,63 27839,46 27839,39 27839,39 918 822 814 DEG F 47.969 48.095 48.157 48.216 48.273 48.330 48.330 E LOW -0. E HIGH -0. RESULT E EQUALS (RATE SLOPE SLOPE SLOPE 1 TEST RI SLOPE 1 LEAK RA TIME 15:13 16:13 17:13 17:13 19:13 19:13 29:13 20:13

FOSS MARITIME 19030 NW ST. HELENS RD 17. 0. BOX 83018 PORTLAND OREGON 97231 1-503-296-0631

2006/11/30

23:59

TANK INVENTORY DETAIL

~ TANK 1

TANK NO. 1 20032.7 GAL MANIFOLD MAN-1 PRODUCT 1 DIESEL 14912.8 GAL 14984.5 GAL 82.968 IN GROSS HET PROD LEVEL GROSS CAPACITY Y 74.4% 4118.2 GAL ULLAGE TEMPERATURE 49.408 F WATER LEVEL WATER VOLUME '9,000 IN 0.0 GAL

TANK 2

TANK NO. 2 20032.7 GAL MANTFOLD MAN 1 PRODUCT DIESEL GROSS 14192.6 GAL NET 14260.2 GAL PROD LEVEL 79.360 IN GROSS CAPACITY 70.8% ULLAGE 4838.4 GAL TEMPERATURE 49.512 F WATER LEVEL 0.000 IN WATER VOLUME 9.0 GAL

TANK 3

TANK NO. 3 6260.8 GAL PRODUCT 30 UT OIL GROSS 1673.4 GAL NET 1673.2 GAL PROD LEUEL 29.712 IN CROSS CAPACITY 26.7% 4274.3 GAL 60.253 F 3 929 IN

```
FOSS MARITIME
          9030 HIN ST HELENG RD
            P. 7 30X 830+8
        POPTLA
                                                                              FOSS MARITIME
                                                                           9636 NUTSTIHELENS RD
                                                                             P. O. BOX 83018
       2007/01/6.
                                                                         PORTLAND OREGON 97231
                                                                              1-503-286-0631
           LEAK TEST REPORT
                                                                        2006/12/31
                                                                                             23:59
      TANK 3
                     6269.8 GAL
                                                                        TANK INVENTORY DETAIL
             30 WT OIL
                                                                                  TANK 1
     LEAK TEST
     FAK THRESHOLD 8.100 GPH
                                                                        TANK NO. 1
                                                                                      20032.7 GAL
       PEDENCE LEVEL
     ST STARTED 23:59
STARTED 2007/01/01
                                                                        MANIFOLD
                                                                                            MAN 1
                         99.0%
                                                                        PRODUCT
                                                                                           DIESEL
                         23:59
    LAST DELIVERY 2006/08/01
                                                                        GROSS
                                                                                       6806.0 GAL
                                                                                       6841.5 GAL
                        --7:51
                                                                        PROD LEVEL
                                                                                        44.357 IN
    GROSS-CAPACITY
                                                                        GROSS-CAPACITY
                                                                                            34.0%
    BEGIN GROSS
                        12.17
                                                                        ULLAGE
                                                                                      12225.0 GAL
                    758.1 GAL
    JEGIN NET
                    760.1 GAL
16.973 IN
                                                                        TEMPERATURE
                                                                                         48.498 F
    BEGIN LEVEL
                                                                        WATER LEVEL
                                                                                         9.000 IN
    SEGIN TEMP
                                                                        WATER VOLUME
                                                                                          0.0 GAL
                     54.238 F
   BEGIN WATER
   BEGIN WATER
                     0.0 GAL
                    0.021 IN
   END TIME
                                                                                  TANK 2
   END DATE
                        2:24
                  2007/01/02
   END GROSS
                                                                        TANK NO. 2
                   758.1 GAL
                                                                                      20032.7 GAL
   END MET
                                                                        MANIFOLD
                                                                                          . MAN 1
                  760.1 GAL
  END LEUEL
                                                                        PRODUCT
                  16.973 IN
                                                                                           DIESEL
  END TEMP
                                                                        GROSS
                                                                                       6537.9 GAL
                   54,264 F
  END WATER
                                                                        NET
                                                                                       6569.8 GAL
                    0.0 GAL
  END WATER
                                                                        PROD-LEVEL
                                                                                        43.060 IN
                   9.021 IN
                                                                        GROSS CAPACITY
                                                                                            32.6%
        HOURLY DATA
                                                                        ULLAGE
                                                                                     12493.1 GAL
                                                                        TEMPERATURE
                                                                                         49.233 F
 TIME
            DEG F GAL
                                                                        WATER LEVEL
                                                                                         0.000 IN
  0:58
            54.263 769.11
                                                                        WATER VOLUME
                                                                                          0.0 GAL
  1:58
            54.268 760.09
SLOPE
             0.002 GAL/HR
                                                                                 TANK 3
SLOPE LOW
SLOPE HIGH
            0.000 GAL HR
                                                                        TANK NO. 3
            0.003 GAL /HR
                                                                                       6260.8 GAL
TEST RESULT
SLOPE EQUALS CALCULATED
                  PASSED
                                                                        PRODUCT
                                                                                        30 MT OIL
                                                                        GROSS
                                                                                        758.2 GAL
LEAK RATE
                                                                        NET
                                                                                        769.1 GAL
                                                                        PROD LEVEL
                                                                                        16.974 IN
                                                                        GROSS CAPACITY
                                                                                            12.12
                                                                                       5189.5 GAL
                                                                        ULLAGE
                                                                        TEMPERATURE
                                                                                         54.449 F
                                                                        WATER LEVEL
                                                                                         0.022 IN
                                                                        WATER VOCUME
                                                                                          0.0 GAL
```

```
P. 0. 80X 83018
PORTLAND OREGON 97231
                                                      1-503-286-9631
                                                                      7:59
 FOSS MARITIME
9830 NW ST HELENS RD
                                                2007/01/02
                                                     LEAK TEST REPORT
   p, O. 80X 83018
PORTLAND OREGON 97231
                                                               20032.7 GAL
     1-503-286-0631
                                                 TANK 2
                      7:58
                                                           DIESEL
2007/01/02
                                                                  0.200 GPH
                                                 LEAK TEST
    LEAK TEST REPORT
                                                 LEAK THRESHOLD 0.100 GPH
                                                                      99.9%
                                                 CONFIDENCE LEVEL
              20032.Z.GALL
TANK 1
                                                 TEST STARTED
                                                                      23:59
                                                 TEST STARTED
          DIESEL
                                                                        2:17
                                                  LAST DELIVERY
                                                  LAST DELIVERY 2007/01/01
                 0.200 GPH
LEAK_TEST
                                                  GROSS CAPACITY
                                                                   -----3<del>5.</del>6%
LEAK THRESHOLD 0.100 GPH
                                                                 7138.9 GAL
CONFIDENCE LEVEL 99-0%
                                                  BEGIN GROSS
                                                                  7166.2 GAL
                                                  BEGIN NET
                      23:59
TEST STARTED
                                                                   45.919 IN
                                                  BEGIN LEVEL
TEST STARTED 2007/01/01
                                                                   49.083 F
                                                  BEGIN TEMP
                      2:17
 LAST DELIVERY
                                                                    0.0 GAL
 LAST DELIVERY 2007/01/01
                                                  BEGIN WATER
                                                                    0.000 IN
                                                  REGIN WATER
                      37.3%
 GROSS CAPACITY
                7472.2 GAL
7508.5 GAL
                                                                     7:58
 BEGIN GROSS
                                                  END TIME
                                                                  2007/01/02
                                                  END DATE
 BEGIN NET .
                                                                  7132.2 GAL
                 47,549 IN
                                                  END GROSS
 BEGIN LEVEL
                                                                  7166.4 GAL
                                                   END HET
                   49.287 F
 BEGIN TEMP
                                                                   45.925 IN
                                                   END LEVEL
                    0.0 GAL
 BEGIN WATER
                                                                     49.422 F
                   0.900 IN
                                                       TEMP
 BEGIN WATER
                                                   FND
                                                                     0.0 GAL
                                                   END WATER
 END TIME
                                                                     0.000 IN
                 2007/01/02
                                                   END WATER
 END DATE
                 7473.2 GAL
 END GROSS
                                                          HOURLY DATA
                 7508.8 GAL
     HET
  END
                  47.554 IN
 END LEVEL
                   49,507 F
                                                              DEG F GAL
 END TEMP
                                                   TIME
                                                             49.133 14674.50
49.179 14674.29
                    0.0 GAL
                                                    0:58
 END WATER
                   0.000 IN
                                                     1:58
  END WATER
                                                              49.222 14674.16
49.264 14674.06
                                                     2:58
        HOURLY DATA
                                                     3:58
                                                              49.304 14674.24
                                                     4:58
                                                              49.346 14674.33
             DEG F. GAL
                                                     5:58
  TIME
            49.315 14674.50
                                                              49.384 14674.54
                                                     6:58
   0:58
                                                              49,422 14675,19
            49.343 14674.29
                                                     7:58
   1:58
            49.372 14674.16
49.397 14674.06
   2:58
                                                                 0.029 GAL/HR
0.025 GAL/HR
                                                    SLOPE
    3:58
            49,425 14674,24
                                                    SLOPE LOW
                                                    SLOPE HIGH 9.033 GAL/HR
TEST RESULT PASSED
    4:58
            49.454 14674.33
    5:58
            49.479 14674.54
    6:58
                                                    SLOPE EQUALS CALCULATED
             49,507 14675.19
    7:58
                                                     LEAK RATE
                0.029 GAL/HR
   SLOPE
               9.025 GAL/HR
   SLOPE LOW
   SLOPE HIGH 0,033 GAL/HR
                      PASSED
   TEST RESULT
   SLOPE EQUALS CALCULATED
   LEAK RATE
```

FOSS MARITIME 9030 NW ST HELENS RD

FOSS MARITIME

TITTOSS MARITIME	FOSS MARITIME 9830 NW STIHELENS RD	9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND DREGON 9723: 1-503-286-0631
PRIM NW ST HELENS PR PROPERTY AND REPORT AND	FOSS MAKITAME 9030 NW ST-HELENS RD P. 0. BCX 83018 PORTLAND OREGON 97231 1-503-296-0631 2007/02/02 7:59 LEAK TEST REPORT TANK 2 20032.7 GAL	2007/ 92/ 9 2 3: 99
1-503-286-0631	1-000-200-0001 000-200-000	LEAK TEST REPORT
2007/9 2/02 7:59	ZEMITANIZANZ (+32	TANK 3 6260.8 GAL
LEAK TEST REPORT	COME (EST REPUR)	39 WT OIL
TANK 1 20032.7 GAL	NTEOE)	
DIESEL	•	CONFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 2007/02/01
LEAK TEST 0.200 CPH LEAK THRESHOLD 0.100 GPH	CONFIDENCE LEUEL 99.02-	TEST STARTED 2007/02/01 LAST DELIVERY 10:33 CAST-DELIVERY 2007/01/18
CUNFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 2007/02/01 LAST OELIVERY 18:51 LAST OELIVERY 2007/01/31 GROSS CAPACITY 67.6% BEGIN GROSS 13544.3 GAL BEGIN NET 136.181 IN BEGIN LEUE 76.181 IN BEGIN WATER 9.0 GAL BEGIN WATER 9.0 GAL BEGIN WATER 9.000 IN END TIME 2007/02/02 END GROSS 13543.1 GAL END NET 13617.4 GAL END NET 13617.4 GAL END NET 13617.4 GAL END NET 13617.4 GAL END NET 0.0 GAL END WATER 9.00 IN HOURLY DATS TIME 0EG F GAL 0:58 47.792 27924.60 1:58 47.896 27922.94 2:58 47.821 27924.33 3:58 47.850 27922.11 5:59 47.863 27922.11 5:59 47.863 27922.08	TEST STARTED 23:59 TEST STARTED 2007/02/01 LAST DELIVERY 18:51 LAST DELIVERY 71.0% BEGIN GROSS 14227.2 GAL BEGIN NET 14303.9 GAL BEGIN LEUEL 79.531 IN BEGIN LEUEL 79.531 IN BEGIN WATER 0.000 IN END TIME 7:59 END DATE 2007/02/02 END GROSS 14231.6 GAL END NET 14307.3 GAL END NET 14307.3 GAL END LEUEL 79.553-IN— END TEMP 48.277 F END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.2924.63 1:58 48.172 27924.63 1:58 48.172 27924.33 3:58 48.194 27924.55 4:59 48.235 27924.63 6:58 48.257 27922.11 5:59 48.257 27922.08 7:59 48.277 27924.74	ABADA AABAATTU CC AU
7:59 47.887 27924.74 SLOPE 0.875 GAL/HR SLOPE LOW 0.957 GAL/HR SLOPE HIGH 0.094 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE	SLOPE 0.075 GAL/HR SLOPE LOW 0.057 GAL/HR SLOPE HIGH 0.094 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE	

FOSS MARITIME 9030 NW ST HELENS RD P. C. 80% 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/01/31

__23:59_

TANK INVENTORY DETAIL

TANK 1

TANK NO. 1 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 13542.5 GAL 13621.0 GAL 76.172 IN Y 67.6% NET PROD LEVEL GROSS CAPACITY 5488.5 GAL ULLAGE TEMPERATURE 47.223 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL

-TANK-

TANK NO. 2 MANIFOLD 20032.7 GAL PRODUCT DIESEL 14221.7 GAL 14303.5 GAL 79.504 IN FY 71.0% GROSS NET PROD LEVEL GROSS CAPACITY ULLAGE 4809.3 GAL TEMPERATURE 47.318 F WATER LEVEL 8.000 IN WATER VOLUME 0.0 GAL

TANK 3.....

TANK NO. 3 6260.8 GAL 30 WT DIL 4485.3 GAL PRODUCT GROSS 4487.3 GAL 63.984 IN NET PROD LEVEL GROSS CAPACITY 71.6% 1462.4 GAL ULLAGE **TEMPERATURE** 59,012 F WATER LEVEL 0:026 IN WATER VOLUME 0.0 GAL

FOSS MARITIME
9030 NW ST HELEMS RO
P. O. BOX 83018
PORTLAND OREGON 97231
1-503-286-0631

2007/03/01

16:00

· LEAK TEST REPORT

TANK 2

2**90**32.7 GAL

DIESEL

0.100 SPH LEAK TEST LEAK THRESHOLD 0.050 GPH CONEIDENCE LEVEL 99.0% 7:59 TEST STARTED TEST STARTED 2007/03/01 LAST DELIVERY LAST DELIVERY 2007/02/28 78.9% GROSS CAPACITY BEGIN GROSS 15807.6 GAL 15894.3 GAL BEGIN NET 87.602 IN BEGIN LEVEL 47.910 F BEGIN TEMP ดู.ศ GAL BEGIN WATER 0.000 IN BEGIN WATER 15:59 END TIME 2007/93/01 END DATE 15803.0 GAL END GROSS 15887.5 GAL 87.578 IN END HET END_LEVEL 48.211 F END TEMP ଉ.ଡ GAL END WATER 0.000 IN END WATER

HOURLY DATA

TIME 8:59 9:59 10:59 11:59 12:59 13:59	0E6 F GAL 47.948 31115.85 47.985 31115.85 48.021 31115.77 48.057 31115.44 48.119 31107.01 48.143 31106.74 48.180 31106.52
**	
4 C • S G	48.211 31106.79

SLOPE -1.686 GAL/HR SLOPE LOW -1.723 GAL/HR SLOPE HIGH -1.650 GAL/HR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME 9030 NW ST HELENS RD P. O. 80% 93018 PORTLAND OREGON 97231 1-503-286-0631

2007/03/01

15:59

LEAK TEST REPORT

TANK 1

20032.7 GAL

DIESEL

LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL S 99.0% 7:59 TEST STARTED TEST STARTED 2007/03/01 LAST DELIVERY 7:42 LAST DELIVERY 2007/02/28 GROSS CAPACITY 75.6% BEGIN GROSS 15150,8 GAL BEGIN HET 15221.5 GAL BEGIN LEVEL 84.182 IN -BEGIN TEMP -- 49.714 F BEGIN WATER 0.0 GAL 0.000 IN BEGIN WATER END TIME 15:59 END DATE 2997/93/01 15149.6 GAL END GROSS END HET 15219,1 GAL END I FUEL 84.176 IN 49.887 F END TEMP END WATER 0.0 GAL END WATER 0,000 IN

HOURLY DATA

TIME	OEG F	GAL
8:59	49.737	31115.85
9:59	49.758	31115.85
10:59	49,779	31115.77
11:59	49.799	31115.44
12:59	49.828	31107.01
13:59	49.848	31106.74
14:59	49.868	31106.52
15:59	49.887	31196.59

SLOPE -1.686 GAL/HR SLOPE LOW -1.723 GAL/HR SLOPE HIGH -1.650 GAL/HR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME 9030 NW ST HELENS RD 8. 0. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/03/01

11:09

LEAK TEST REPORT

TANK 3

6260.8 GAL

- 30 WY OIL

LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL TEST STARTED 7:59
TEST STARTED 2007/03/01 LAST DELIVERY LAST DELIVERY 2007/01/18 GROSS CAPACITY 50.3% BEGIN GROSS 3148.0 GAL 3156.9 GAL 47.710 IN 53.751 F SEGIN NET BEGIN LEVEL SEGIN TEMP BEGIN-WATER 0.0 GAL BEGIN WATER END TIME 0.018 IN .11:09 2007/03/01 END DATE END GROSS 3147.9 GAL 3156.8 GAL END HET END LEVEL 47,709 IN END TEMP 53.725 F END WATER 0.0 GAL END WATER 0.018 IN

HOURLY DATA

TIME DEG F SAL 8:59 53.745 3156.95 9:59 53.726 3156.95 18:59 53.726 3156.87

SLOPE -0.029 GAL/HR
SLOPE LOW -0.030 GAL/HR
SLOPE HIGH -0.027 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

 FOSS MARITIME - 9030 NW ST MELENS RD P. 0. 80X 83018 PORTLAND OREGON 9723: 1-503-286-0631	2007/83/82 0:01 LEAK_TEST_REPORT	FOSS MARITIME 9030 AW ST HELENG RD P. 0. BOX 93018 PORTLAND ORECON 9723: 1-503-286-0631 2007/03/02 LEAK TEST REPORT
2007/93/02 3:09	TANK 2 20032.7 GAL	TANK 1 20032.7 GAL
LEAK TEST REPORT	DIESEL	DIESEL
TANK 3 6260.8 GAL 30 WT OIL LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0M TEST STARTED 2007/03/01 LAST DELIVERY 10:33 LAST DELIVERY 2007/01/18 GROSS CAPACITY 50.3M BEGIN GROSS 3147.8 GAL BEGIN LEVEL 47.707 IN 9EGIN LEVEL 47.707 IN 9EGIN LEVEL 47.707 IN 9EGIN WATER 0.0 GAL 8EGIN WATER 0.018 IN END TIME 3:08 END OATE 2007/03/02 END GROSS 3147.8 GAL END NET 3157.0 GAL END LEVEL 47.708 IN END TEMP 53.587 F END WATER 0.0 GAL END LEVEL 47.708 IN END TEMP 53.587 F END WATER 0.0 GAL END MATER 0.0 GAL END MATER 0.0 GAL END MATER 0.0 GAL END MATER 0.0 GAL	LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEUEL 99.0% TEST STARTED 16:00 TEST STARTED 2007/03/01 LAST DELIVERY 7:42 LAST DELIVERY 78.9% BEGIN GROSS 15803.1 GAL BEGIN NET 15887.6 GAL BEGIN LEWEL 87-58-IN BEGIN WATER 0.0 GAL BEGIN WATER 0.00 IN END TIME 0:00 END DATE 2007/03/02 END GROSS 15804.6 GAL END NET 15887.4 GAL END LEVEL 87.586 IN END TEMP 48.445 F END WATER 0.000 IN HOURLY DATA TIME DEG E GAL	LEAK TEST 0.100 SPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0X TEST STARTED 2007/03/01 TEST STARTED 2007/03/01 TEST STARTED 7:42 LAST DELIVERY 2007/02/28 LAST DELIVERY 75.6X GROSS CAPACITY 75.6X BEGIN GROSS 15149.6 GAL BEGIN LEVEL 84.176 IN BEGIN LEVEL 49.888 F BEGIN WATER 0.000 IN BEGIN WATER 0.0
HOURLY DATA TIME DEG F GAL 0:58 53.607 3156.98 1:59 53.583 3156.98 2:59 53.587 3156.95	17:00 48.244 31106.79 18:00 48.274 31106.37 19:00 48.304 31106.40 20:00 48.334 31106.26 21:00 48.362 31106.96 22:00 48.390 31106.62 23:00 48.419 31106.57 0:00 48.445 31106.42	TIME 49.909 31106.79 17:00 49.909 31106.37 18:00 49.948 31106.40 19:00 49.966 31106.26 20:00 49.982 31106.96 21:00 49.997 31106.62 22:00 49.997 31106.57 23:00 50.026 31106.42
SLOPE 0.008 GAL/HR SLOPE LOW 0.007 GAL/HR SLOPE HIGH 0.010 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK PATE	SLOPE -0.013 GAL/HR SLOPE LOW -0.017 GAL/HR SLOPE HIGH -0.010 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE	SLOPE -0.013 GAL/HR SLOPE LOW +0.017 GAL/HR SLOPE HIGH -0.010 GAL/HR SLOPE RESULT PASSED TEST RESULT CALCULATED LEAK RATE

FOSS MARITIME 9030 NW ST HELEYS RO P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/02/28

23:59

-TANK-INUENTORY DETAIL

TANK 1

TANK NO. 1 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL GROSS 15149.1 GAL NET 15221.3 GAL PROD LEVEL 84.173 IN 75.6% GROSS CAPACITY ULLAGE 3881,9 GAL TEMPERATURE 49.495 F WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL

-JANK 2

TANK NO. 2 20032.7 GAL MANIFOLD MAN 1 PRODUCT DIESEL 15804.4 GAL 15893.5 GAL 87.585 IN Y 78.9% GROSS NET PROD LEVEL GROSS CAPACITY ULLAGE 3226.6 GAL 47.565 F TEMPERATURE WATER LEVEL 0.000 IN WATER VOLUME 0.0 GAL

TANK 3

TANK NO. 3 6260.8 GAL PRODUCT 30 WT DIL GROSS 3148.1 GAL NET 3156.9 GAL PROD LEVEL GROSS CAPACITY 47.711 IN 59.3% -ULLAGE 2799.6 GAL TEMPERATURE 53.820 F WATER LEVEL 0.019 IN WATER WOLUME 0.0 GAL

F088	MARITIME
9030 NW	ST HELENS RD
P, O.	80X 83018
PORTLAND	OREGOM 97231
1-503	7-286-0631

	1-503-286-0631	
FOSS MARITIME 9830 NW ST HELENG RD 2. O. SOX 83018 PORTLAND OREGON 9723: 1-503-286-0631	2007/04/02 7:59 LEAK TEST REPORT TANK 2 20032.7 GAL DIESEL	FOSS MARITIME 9030 NW ST HELENS RD P. D. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631
2997/94/92 7159	LEAK TEST TALDAR APH	
LEAK TEST REPORT	LEAK TEST 0.200 GPH LEAK THRESHOLD-0.100 GPH	LEAK TEST REPORT
TANK : 28832-7 GAL !	CONFIDENCE LEUGI 99.00 TEST STARTED 23:59	TANK 3 6268.8 BAL
DIESEL	TEST STARTED 2007/04/01 LAST DELIVERY 4:49 LAST DELIVERY 2007/03/27	30 WT OIL' ' LEAK TEST 0.200 GPK
LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEUEL 99.0% TEST STARTED 2007/04/01 LAST DELIVERY 4:49 LAST DELIVERY 2007/03/27 GROSS CAPACITY 56.2% BEGIN GROSS 11257.8-00L BEGIN NET 11291.9 GAL BEGIN LEUEL 65.301 IN BEGIN WATER 0.000 IN END TIME 7:58 END DATE 2007/04/02 END GROSS 11258.2 GRL END LEUEL 65.307 IN	GROSS CAPACITY 58.7% BEGIN GROSS 11749.5 GAL BEGIN NET 11783.0 GAL BEGIN LEVEL 67.611 IN BEGIN LEVEL 67.611 IN BEGIN WATER 0.0 GAL BEGIN WATER 0.00 IN END TIME 7:58 END DATE 2007/04/02 END GROSS 11750.1 GAL END NET 11783.4 GAL END LEVEL 67.614 IN END TEMP 53:752 F END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.000 IN HOURLY DATA	LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 20:70400 LAST DELIVERY 2007/01/18 GROSS CAPACITY 32.2% BEGIN GROSS 20:8.1 GAL BEGIN LEVEL 34.063 IN BEGIN WATER 0.05 F BEGIN WATER 0.05 IN BEGIN WATER 0.05 IN BEGIN WATER 0.05 IN BEGIN WATER 0.015 IN BEGIN WATER 0.015 IN BEGIN WATER 0.015 IN BEGIN WATER 0.015 IN END TIME 3:03 END CATE 2007/04/02 END GROSS 20:18.1 GAL END NET 20:22.8 GAL END NET 20:22.8 GAL END LEVEL 34.063 IN
END LEUEL 65.393 IN END TEMP 53.373 F END WATER 8.80 GAL END WATER 9.800 IN	0:58 53.712 23075.05 1:58 53.718 23075.10 2:58 53.724 23075.12 3:58 53.729 23074.96 4:58 53.735 23074.94	END TEMP 54.913 F END WATER : 0.0 GAL END WATER : 0.015 IN
HOURLY DATA	4:58 53.735 23074.94	HOURLY DATA
TIME DE6 F GAL 0:58 53.330 23075.05 1:58 53.336 23075.10 2:58 53.342 23075.12 3:58 53.349 23074.96 4:59 53.354 23074.94 5:58 53.360 23074.86 6:58 53.367 23075.46 7:58 53.373 23075.48		TIME DEG F GAL 0:58 54,908 2022.80 1:58 54.910 2022.80 2:58 54.913 2022.83 SLOPE 0.001 GAL/HR SLOPE HIGH 0.002 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE
SLOPE 0:043 GAL/HR SLOPE LOW 0.041 GAL/HR SLOPE HIGH 0.046 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE		

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

							_	
1	- 9055 MAR	ITIME		2007/05/01	15:45	5	FUSS M 9030 NU S	ARITIME T HELENG DD
	9030 NN SI P. O. B <mark>OX</mark>	MELENS RU 83018		LEAK TE	ST REPORT		P. O. B	DX 83018 PEGON 9707:
:	PORTLAND UKE 1-503-28	GUN 97231 6-0631	. :	TANK 2	20032.7 GAL		1-583-1	286-9631
	2007/05/01	iØ: 19	1 t	. 01	ESEL		FOSS M 9030 NW S 9.0.80 9.0.80 PORTLAND OF 1-503-1	. <u>15:4</u> 4
i	LEAK TEST	REPORT		LEAK TEST	0.100 GPH	!	LEAK TES TANK 1 - DIE LEAK TEST LEAK THRESHO	REPORT
	TANK 3	6260.8 GAL	. !	CONFIDENCE CONFIDENCE	OED-0 .050 GPH LEVEL 99.0%		TANK 1	20032.7 GAL
	TANK 3 30 WT LEAK TEST LEAK TESTON	110		TEST STARTE	D 7:44 D 2007/05/91		- DIE	SEL
	CO WI	5 +66 CDU		LAST DELIVE	RY 22:11		LEAK TEST	ଜି ବଳର ୧୯୯
				GROSS CAPAC	TTY 76.2%		LEAK THRESHO	LD 0.050 GPH
1	CONFIDENCE LE TEST STARTED	MC3 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -	1 1	0000 C	instance our		LEAK THRESHO CONFIDENCE LY TEST STARTED TEST STARTED	:VEL 99,0% 7:44
	TEST STARTED	2007/05/01		BEGIN LEVEL	84.767 IN			
\ 	LAST DELIVERY	J 2007/01/19		BEGIN WATER	ეგ.აეგ ⊢ <u>მ.მ_GA</u> L		Euro : DECIDERA	′ 208778473a -
ľ	GROSS CAPACIT	TY 15.3% 957.9 GAL	•	SEGIN WATER END TIME	0.000 IN 15:44		BEGIN GROSS	72.9% 14610.4 GA:
1	BEGIN HET	958.9 GAL		END DATE	2007/05/01	ı	BEGIN LEUFI BEGIN LEUFI	14623.8 GAL
:	BEGIN TEMP	19.982 18 57.667 F		END NET	15275.9 GAL 84.767 IN 58.358 F -0.0 GAL 0.000 IN 15:44 2007/05/01 15264.5 GAL 15276.3 GAL -84.767 IN	<u> </u>	BEGIN TEMP	57.970 F
	- BEGIN WATER BEGIN WATER	0.0 GAL 0.014 IN	-	END LEVEL	84.767IN 58.300 F		BEGIN WATER	9.000 IN
	END TIME	10:19		END WATER	0.0 GAL		END DATE	15+44 2907/05/01
	END GROSS	957.9 GAL		2.10 2017 CR	0.000 18		END GROSS :	14609.0 GAL
! 	END NET END LEUFL	958.9 GAL 19.981 IN		HOOKEY	r DATA		END LEVEL	19622.7 SAL 81.435 JN
	END TEMP	57.691 F	t ,	TIME DE	36 F GAL 349 39000 76		END WATER	57.934 F 9.0 GAL
	END WATER	0.015 IN		9:44 58.	340 29899.67		END WATER	9.999 IN
	HOURLY	DATA	1	10:44 58.	332 29899,51 325 2 <mark>9898.94</mark>		GROSS CAPACIT BEGIN GROSS BEGIN NET BEGIN LEVEL BEGIN TEMP BEGIN WATER BEGIN WATER BEND TIME END CROSS END NET END LEVEL END TEMP END WATER HOURLY D TIME 8:44 57.964 19:44 57.961 11:44 57.961	ATA .
	TIME DE	G F GAL		12:44 58. 13:44 58.	318 29898.81 312 29898.85		TIME DEG	F GAL
	8:44 5	7.676 9 58.92		14:44 58; 15:44 58.	-306 29898-83- -300 29899 06		9:44 57.96 9:44 57.96	4 29899.71 0 29899.67
	71 44 0	* *** ***	,	פי חסב	B 144 04 UB		9:44 57.96 19:44 57.95 11:44 57.95	29899,51 29899 04
,	SLOPE LOW -	0.026 GAL/HR		SLOPE LOW -	-0.147 GAL/HR		12:44 57.946 13:44 57.946	29898.81
	SLOPE HIGH - TEST RESULT	-0.024 GAL/HR PASSED		TEST RESULT	0.141 GAL/HR FAILED		14:44 57.938	4 47896.85 3 29898,83
	SLOPE EQUALS	CALCULATED		SLOPE EQUALS LEAK RATE	CALCULATED			29899.06 ₀
	TERM SHIP			→ men to S = 15° 17° in	ERRY ANNELS STORES		19:44 57.95 11:44 57.95 12:44 57.94 13:44 57.93 14:44 57.93 15:44 57.93 SLOPE -0.1 SLOPE LOW -0.1 TEST RESULT SLOPE FOURTS CO.	44 GALZHR 47 GALZHR
ī							SLOPE HIGH -0.1	41 GAL/HR
!		C		• .				FAILED LCULATED
	,						LEAK RATE	

FOSS MARITIME 9030 NW ST HELENS RD P. O. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

2008/01/01

13:59

ALARM REPORT

2007/05/02

13:49

POWER DOWN

2998/01/01

POWER UP

13:49

2008/01/02 7,59

LEAK TEST REPORT- - ----

FOSS MARITIME 9030 NW ST HELENS RO

P. O. BOX 83018

PORTLAND OREGON 97231

1-503-286-0631

TANK 1 20032.7 GAL

2008/01/02

7:59

LEAK TEST REPORT

FOSS MARITIME

P. O. BOX 83018 PORTLAND OREGON, 97231

1-593-286-9631

9030 NW ST HELENS RD-

. 20032.7 GAL TANK 2

DIESEL

LEAK TEST 0.200 GPK LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 2008/01/01 LAST DELIVERY 22:11 LAST DELIVERY 2007/04/39 GROSS-CAPACITY 76.2% BEGIN GROSS 15265.6 GAL BEGIN NET 15278.0 GAL BEGIN LEVEL 84,772 IN BEGIN TEMP 58.199 F BEGIN WATER 0.0 GAL 0.000 IN 7:58 BEGIN WATER END TIME END DATE 2008/01/02 15265.5 GAL END GROSS END 'NET 15278.0 GAL END LEVEL 84.772 IN END TEMP 58.189 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

TIME DEG F SAL 0:58 58, 198 29899, 73 58.197 29899.83 58.195 29899.82 1:58 2:58 3:59 58, 194, 29899, 81 4:58 58,192 29899.71 58.191 29899.70 5:58 6:58 58,190 29899.85 58.189 29899.67 7:58

SLOPE -0.009 GAL/HR SLOPE LOW -0.010 GAL/HR SLOPE HIGH -0.008 GAL/HR TEST RESULT PASSED PASSED SLOPE EQUALS CALCULATED LEAK RATE

DIESEL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL TEST STARTED 23:59 TEST STARTED 2008/01/01 LAST DELIVERY 22:11 LAST DELIVERY 2007/04/30 GROSS CAPACITY 72.9% -REGIN-GROSS-14697.7 GAL BEGIN NET 14621.8 GAL **BEGIN LEVEL** 81.428 IN SEGIN TEMP 57.883 F BEGIN WATER 0.01GA SEGIN WATER 0.000 IN END TIME 7:58 2008/01/02 END DATE END GROSS 14607.6 GAL END WET 14621.6 GAL END LEVEL 81,427 IN END TEMP 57.881 F END WATER 0.0 GAL SHD WATER 0.000 IN

HOURLY DATA

TIME DEG F GAL 9:58 57.883 29899.73 1:58 57.883 29899.83 2:58 577882 29899.82 3:58 29899,81 57.882 4:58 57.882 29899,71 57.882 29899.70 5:58 6:58 57.882 29899.85 7:58 57.881 29899.67

SLOPE -0.009 GAL/HR SLOPE LOW -0.010 GALZHR SLOPE HIGH -0.008 GALZHR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9839 NW ST HELENS RD

P. O. BOX 83018 PORTLAND OREGON 9723: 1-503-286-0631

2008/01/02

2:34

LIEAK TEST REPORT

TANK 3

6260.8 GAL

30 WT OIL

LEAK TEST . 0.200 SPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 23:59 TEST STARTED 2008/01/01 LAST DELIVERY LAST DELIVERY 2007/01/18 10:33 GROSS CAPACITY 15.3% BEGIN GROSS 958.0 GAL BEGIN NET 958.8 GAL BEGIN LEVEL 19.983 IN BEGIN TEMP 58.044 F BEGIN WATER 0.0 GAL BEGIN WATER 9.015 IN END TIME END DATE 2008/01/92 END GROSS 958.0 GAL END HET 958.8 GAL END LEVEL 19.983 IN END TEMP 58.067 F END WATER 0.0 GAL END WATER 0.014 IN

HOURLY DATA

TIME DEG F GAL 0:58 58.053 958.83 1:58 58,062 958.84

SLOPE -0.001 GAL/HR SLOPE LOW -0.002 GAL/HR SLOPE HIGH -0.900 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

Ø1. →	FOSS MARITIME 9030 NW ST HELENS RD P. C. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631	
	1-585-200-9001 2007/05/01 23:46 LEAK TEST REPORT	FOSS MARITIME
TÄNK 3 - DZDOFF CO.	TANK 2 20032.7 GAL	1-007-789-8671
!!	DIESEL	2667/05/ 01 23:46
- ∫- 30 WT-01Ł		Sadivacie: maile
LEAK TEST 0.200 GPH	LEAK TEST 0.190 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0%	LEAK TEST REPORT
# LEAK THRESHOLD 9: MAGISPH	CONFIDENCE LEVEL 99,0%	
CONFIDENCE LEUEL 99 AV TEST STARTED 23:59	TEST STARTED 15:46	TANK 1 ZUUSZ./ GAL
TEST STARTED 23:59 TEST STARTED 2007/05/01	TEST STARTED 15:46 TEST STARTED 2007/05/01 LAST DELIVERY 2007/04/30 LAST DELIVERY 2007/04/30	DIESEL
LAST DELIUFRY 10:37	1 AST OF TUFRY 2007/04/30	or a produce
LAST DELIUERY 2007∠α1∠18	T CORPE TAPALLET TOVET	- EEDIN 1550
GROSS CAPACITY 15.3% BEGIN GROSS 958.0 GAI	1	LEAK THRESHOLD 9.050 GPH CONFIDENCE LEVEL 99.0%
BEGIN NET 959 @ GAL	8EGIN NET 15276.4 GAL BEGIN LEVEL 84.767 IN	TEST STARTED 15:46
BEGIN LEUF! 19 984 TH	SEGIN TEMP 58.300 F	TEST STARTED 2007/05/01
BEGIN TEMP 57,824 F	BEGIN WATER 0.0 GAL	LAST DELIVERY 22:11
BEGIN WATER 0.0 GAL BEGIN WATER 0.014 IN	SEGIN WATER 9.000 IN	LAST DELIVERY 2007/04/30 GROSS CAPACITY 72.9%
- ・・・・・・	END TIME 2007/05/01	BEGIN GROSS 14609.1 GAL
END DATE 2007/05/02	BEGIN TEMP 58.300 F BEGIN WATER 0.0 GAL BEGIN WATER 0.000 IN END TIME 2007/05/01 END DATE 2007/05/01 END GROSS 15265.5 GAL SHO WET 15277.6 GAL	BEGIN NET 14622.8 GAL
END GROSS 958.0 GAL END NET 959.0 GAL	1 (2012 (1)E' " "	BEGIN LEVEL 81.435 IN
END NET 959.0 GAL 19.983 IN	- 세 - FN(사 LEVEL - 1977) 일입고기교	SEGIN TEMP 57.935 F — BEGIN-WATER 0.0 GAL
END TEMP 57.847 F	FUR HATED 9.9 GAL	REGIN WATER 0.000 IN
I END WATER a g g g a	END WATER 0.000 IN	END TIME 23:46 END DATE 2007/05/01
END WATER 9.014 IN	HOURLY DATA	END GROSS 14608.7 GAL
HOURLY DATA	'	END NET 14622.5 GAL
	TIME DEG F GAL	END LEVEL 81,433 IN
TIME DEG F GAL 0:58 57.832 959 GA	16:46 58.270 27077.70	END TEMP 57.912 F END WATER 0.0 GAL
0:58 57.832 959.00 1:58 57.842 958.97	15 + 40	END WATER 0.000 IN
	59 280 29899.74	
; SLOPE -0.004 GAL/HR	20:46 58.275.29899.70	HOURLY DATA
SLOPE LOW -0.006 GAL/HR SLOPE HIGH -0.003 GAL/HR	21:46 58.271 29899.76 22:46 58.267 29899.64	TIME DEG E GAL
TEST RESULT PARSEN	22:46 58.267 29897.64	TIME DEG F GAL 16:46 57.931 29899.36
SLUPE EQUALS CALCULATED		17:46 57.928 29899.61
LEAK RATE	SLOPE 0.082 GAL/HR	18:46 57.925 29899.55 19:46 57.922 29899.62
	SLOPE LOW 0.080 GAL/HR SLOPE HIGH 0.085 GAL/HR	20:46 57.919 29899.74
	TECT PERMIT INCREASE	21:46 57.917 29899.70
	SLOPE EQUALS CALCULATED	22:46 57.914 29899.52
•	LEAK RATE	23:46 57.912 29900.16
•		SLOPE 0.082 GAL/HR
•	1 A *** *** *** *** *** *** *** *** ***	SLOPE LOW 0.080 GAL/HR SLOPE HIGH 0.085 GAL/HR
	!	TEST RESULT INCREASE
		SLOPE EQUALS CALCULATED
·		LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 FOSS MARITIME 9030 NW ST HELENS RD 2007/05/02 7:59 P. O. BOX 83018 PORTLAND OREGON 97231 LEAK TEST REPORT. 1-503-286-9631 TANK 1 20032.7_GAL____ 2007/05/02 7:59 DIESEL LEAK TEST REPORT LEAK TEST 0.20A GPH TANK 2 20032.7 GAL LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99, 97 DIESEL 23:59 TEST STARTED TEST STARTED 2007/05/01 LEAK TEST 0.200 GPH LAST DELIVERY 22:11 LEAK THRESHOLD 0.100 SPH LAST DELIVERY 2007/04/30 CONFIDENCE LEVEL 99.92 GROSS CAPACITY 72.9% TEST STARTED 23:59 TEST STARTED 2007/05/01 LAST DELIVERY 22:11 BEGIN GROSS 14608.8 GAL BEGIN-NET--14622.7-GAL LAST DELIVERY 22:11 LAST DELIVERY 2007/04/30 BEGIN LEVEL 81,434 IN REGIN TEMP 57.912 F GROSS CAPACITY BEGIN WATER 0.0 GAL BEGIN GROSS 15265.6 GAL BEGIN WATER ___0.000 IN BEGIN NET --152**77.**7 GÁĽ END TIME 7:58 BEGIN LEVEL 84.772 IN 2007/05/02 ENDIDATE BEGIN TEMP 58.262 F END GROSS 14608.3 GAL BEGIN WATER 0.0 GAL END NET 14622.3 GAL BEGIN WATER 0.000 IN 81,431 IN END LEVEL END TIME 57.897 F END TEMP END DATE 2007/05/02 END WATER 6.0 GAL 15265.6 GAL 15277.8 GAL END GROSS END WATER 0.000 IN END MET END LEVEL 84.772 IN HOURLY DATA END TEMP 58.235 F END WATER 0.0 GAL DEG F GAL TIME 0.000 IN END WATER 57.909 29900.04 57.907 29900.17 57.905 29900.28 0:58 1:58 HOURLY DATA 2:58 3:58 57.903⁻29900.34 TIME DEG F GAL 57.901 29900.36 4:59 0:58 58.258 29900.04 58.255 29900.17 57.900 29900.24 5:58 1:58 57.898 29900.11 57.897 29900.05 **6:5**8 2:58 58.251 29900.28 7:58 3:58 58.248 29900.34 4:58 58,245 29900,36 SLOPE -0.015 GAL/HR 5:58 58.241 29900.24 58.238 29900.11 SLOPE LOW -0.017 GAL/HR 6:58 SLOPE HIGH -0.014 GALZHR 7:58 58.235 29900.05 TEST RESULT PASSED. SLOPE EQUALS CALCULATED SLOPE -0.015 GAL/HR SLOPE LOW -0.017 GAL/HR LEAK RATE SLOPE HJGH -0.014 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

	9030 NW ST HELEMS RD P. O. BOX 83018	FOSS MARITIME 9830 NU ST HELENS RD P. 0. 80% 83018 PORTLAND OREGON 97231 1-583-286-8631 2007/07/02 16:06 LEAK TEST REPORT TANK 1 20032.7 GAL DIESEL LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEUEL 99.8% TEST STARTED 8:06 TEST STARTED 17:24 LAST DELIVERY 17:24 LAST DELIVERY 2007/06/30 GROSS CAPACITY 62.7% BEGIN GROSS 12567.0 GAL BEGIN NET 12507.3 GAL BEGIN LEUEL 71.482-IN BEGIN WATER 0.000 IN END TIME 0.000 IN END TIME 16:96 END DATE 2007/07/02 END GROSS 10787.5 GAL END LEUEL 63.100 IN END TEMP 70.512 F END WATER 0.000 IN HOURLY DATA TIME DEG F GAL 9:06 70.441 22283.20 10:06 70.437 22276.59 11:06 70.436 22283.33 14:06 70.430 22275.63 15:06 70.436 22283.07 16:06 70.451 219612.66	
}.	F. U. SUN USUIS BODTIAND AREADN 97931		*
1	1_507_004_0431	TARA MARTITIME	10 Ti - 110
1	1-767-566-6651	-082 NAKTINE	214
1	0007/07/00 17:07	983N MM ST TECHNO AV	
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}	I TAK TEAT INTOANT	PORTLAND DREDON 3(40)	FORCE MADITIME
•	LEHK TEST KEFUKT	1-202-589-802x	. FUSS THRICIPE
1		47106	ARINE WAR DI HETEND 41
,-	TANK 2 20032.7 GAL	2007/07/62	P. U. SUX 83018
1			PORTLAND OREGUN 9/231
	DIESEL	LEAK TEST REPUR!	1-593-286-9631
	LEAK TEST 0.100 GPH	TANK 1 20032.7 GAL	*:: 2007/07/02
	TEAK-THRESHOLD 0.050 GPH		
Ì	CONFIDENCE LEVEL 99.0%	OIESEL	LEAK TEST REPORT
- 1	TEST STARTED 8:06		
I	TEST STARTED 2007/07/02	FORTEST 0.100 GPH	: TANK 7 6260.8 SAL
	LAST DELIVERY 17:24	FAK THRESHOLD 0.050 GPH	
	LAST DELTUERY 2007/06/30	CONICTOFNEE (FUE) 99.0%	30 WT OIL
	GROSS CAPACITY 49.8%	THET STARTEN 8:06	1
1	REGIN GROSS 9813 5 GAL	THET CTARTED 2007/07/02	LEAK TEST - 0 200 GPH
}	2501 NET 2770 1 GAI	ACT DEL THERY 17:24	FAK THRESHOLD A 100 GDH
}	OCCIN FIEL 50 554 TH	LACT DELIVERY 2007/06/30	CONSTREAMENT OF THE OF THE
1	OCCIN TEMP 49 779 F	CAST DELIVERY 1500 62.7%	TECT OTABTED 77.50
- 1	OFFIN HATED & G CAL	GRUSS CHENCITY 02-11	TECT CTARTED 2007/07/01
-	SECTI NATED GOOD IN	BEGIN GRUSS 12.00 . 5 Och	TOO STREET ABBUT BUT AND ADDRESS OF THE PROPERTY OF THE PROPER
ł	BEGIN WHICK 0.000 TH	BEGIN NET TADOR SO UNE	LITO: UELIVERY 10:90
1	END TIME 16:48	BEGIN LEVEL (1,404 11)	THE DEFINERA YOURANIST
ì	EMD DATE ZANCKACKAZ	SEGIN TEMP (M. 444	GRUSS CAPACITY 64.2%
	END GROSS 8916.8 GAL	BEGIN WATER NEW DHE	8EG1M GROSS 4017.6 GAL
-	END NET 8876-7-3AL	SEGIN WATER - 0.000 IN	BEGIN NET 3998.6 GAL
	END LEVEL 54.364 IN	END TIME 16-ME	BEGIN LEVEL 58.164 IN
	END TEMP 69.876 F	END DATE - 2007/07/02	BEGIN TEMP 70.396 F
	END WATER 0.0 GAL	FND GROSS 10787.5 GAL	BEGIN-WATER 0.1 GAL BEGIN WATER 0.027 IN
	END WATER 0.000 IN 1	FND HET 10735.9 GAL	BEGIN WATER 0.027 IN
i	1	FND FUEL 63.100 IN	END TIME 3:08
	HOURLY DATA	END TEMP 70.512 F	END DATE 2007/07/02
		END MATER 9.0 GAL	END GROSS 4017.6 GAL
1	TIME DEG A GAL	CND MATER 0.900 IN	END NET 3008, 6 GAL
	9:96 69.729 22283.20	FOR ALLESSA	END LEUF! 159,164 TM
	10:06 69.729 22282.31	HOURLY DATA	END TEMP 79.401 F
	11:06 69.730 22276.59	100021 2000	END WATER 9.9 GAL
	12:06 69.731 22287.92	TIME DEG E GAL	FND WATER A A26 IN
	17.04 69 771 22205 77	29 441 22283-29	21/p 44(1/21) 01020 11)
	14.06 60 779 22200.00	70 70 470 22222 31	HOUDE U BATA
	19:00 07:102 12210:00 15:02	10:06 70.437 2222.01	HOURE) VIIII)
	13:06 67:132 22263.01	11:06 70.437 22270.07	TIME SEC E SAL
1	16:06 67.876 12612.66	12:06 70:400-22201-22	1175 UEU F UML
	OLDER TO THE CALL HE	13:06 (0.400 2220 23	#:08
1	SLOPE -72.718 GAL/HR	14:06 70.430 22275.63	1:58 70.399 3998.65
	SLOPE LOW -78.999 GAL/HR	15:06 70.426 22283.07	2:58 70.400 3998.68
		16:06 70.512 19612.66	
	TEST RESULT FAILED	•	SLOPE 0.002 GAL/HR
	SLOPE EQUALS CALCULATED	SLOPE -72.718 GAL/HR	SLOPE LOW 0.001 GAL/HR
	LEAK RATE	CLOPE LOW -78,999 GAL/HR	SLOPE HIGH 0.003 GAL/HR
	· ·	SLOPE HIG -66.437 GAL/HR	TEST RESULT , PASSED
,	As in the same	TEST DESIGN FAILED	SLOPE EQUALS CALCULATED
j		SLOPE EQUALS CALCULATED	LEAK RATE
,	الأمل ويديد ما ومدار الوالون والمام المستحدد والأحاد الأنافية		

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/07/02 7:59 LEAK-TEST-REPORT-		9030 NM ST	HELEMS RD
TANK 2 20032.7 GAL	 -	PORTLAND ORE 1-503-28	1 93018 100N 97231 86-0631
TANK 2 20032.7 GAL		2007/07/02	7:59
DIESEL		LEAK TEST	REPORT
LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0%	i :	TANK 1	20032.7 GAL
TEST STARTED 23:59 TEST STARTED 2907/07/01	j	DIES	EL
LAST DELIVERY 17:24- LAST DELIVERY 2007/06/30 GROSS CAPACITY 49.0%		LEAK TEST LEAK THRESHOL CONFIDENCE LE	0.200 GPH D 0.100 GPH VEL 99.0%
BEGIN NET 9770.0 GAL	• • • • • • • • • • • • • • • • • • •	TEST STARTED	23:59 2007/07/01
BEGIN TEMP 69.720 F		LAST DELIVERY GROSS CAPACIT	17:24 2007/06/30 49 09
SEGIN WATER 0.000 IN		BEGIN GROSS BEGIN NET	1258478 GAL 12524 9 GAL
END DATE 2007/07/02 END GROSS 9813.4 GAL		BEGIN LEVEL SEGIN TEMP	71.566 IN 70.453 F
END NET 9770.0 GAL END LEVEL 58.553 IN	;	BEGIN WATER BEGIN WATER	0.0 GAL 0.000 IN
END TEMP 69.728 F END WATER 0.0 GAL END WATER 0.000 IN		END TIME END DATE END GROSS	7:58 2007/07/02 12577.5 GAL
HOURLY DATA	1	END LEVEL END TEMP	71.532 IN 70.442 F
TIME DEG F GAL 0:58 69.721 22280.48	1	END WATER END WATER	0.0 GAL 0.000 IN
1:58 69.722 22273.19 2:58 69.723 22292.96 -		HOURLY I	DATA .
DIESEL LEAK TEST	;	TIME DEG 0:58 70.4 1:58 70.4 2:58 70.4 3:58 70.4	F GAL 51 22280.48 49 22273.19 49 22292.96 47 22280.45
SLOPE HIGH 0.111 GALZHR TEST RESULT INCOMPLETE		2:58 70.4 3:58 70.4 4:58 70.4 5:58 70.4 6:58 70.4 7:58 70.4	46 22283.74 14 22285.71 13 22288.78 12 22287.80
SLOPE EQUALS CALCULATED LEAK RATE		SLOPE 0. SLOPE LOW -0. SLOPE HIGH 0. TEST RESULT	.075 GALZHR
e engles a company and a second and	· · · · · · · · · · · · · · · · · · ·	SLOPE EQUALS (LEAK RATE	CALCULATED

FOSS MARITIME

9030 NO ST P. O. BOX 83018 PORTLAND OREGON-97231 . 1-503-286-0631

FOSS MARITIME 9030 NW ST HELENS RD P. 0. 80X 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/06/04

LEAK TEST REPORT

TANK 1

20032.7 GAL

DIESEL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 8:21 TEST STARTED 8:21
TEST STARTED 2007/06/04
LAST DELIVERY 16:40 LAST DELIVERY 2008/01/31 GROSS CAPACITY 52.5% BEGIN GROSS 10518.9 GAL 10470.5 GAL REGIN NET BEGIN LEVEL 61.845 IN 70.120 F BEGIN TEMP BEGIN-WATER 0.090 IN BEGIN WATER 15:21 2007/06/04 END TIME____ END DATE 10503.8 GAL END GROSS 10456.1 GAL END NET 61,775 IN 69,981 F END LEVEL END TEMP END WATER 0.0 GAL 0.000 IN END WATER

HOURLY DATA

TIME 9:21 10:21 11:21 12:21 13:21	DEG F GAL 70.102 21700.22 70.083 21681.32 70.065 21703.26 70.047 21698.68 70.031 21702.64
13:21 14:21 15:21	,0101,
16:21	99.481 31931.22

SLOPE -0.251 GAL/HR SLOPE LOW -0.353 GAL/HR SLOPE HIGH -0.149 GAL/HR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE

2007/06/04

16:22

LEAK TEST REPORT

TANK 2

20032.7 GAL

DIESEL

LEAK-TEST - 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 8:21 TEST STARTED 2007/06/04 LAST DELIVERY 16:40 LAST DELIVERY 2008/01/31 GROSS CAPACITY 56.4% BEGIN GROSS 11289.8 GAL 11235.1 GAL 65.451 IN BEGIN NET BEGIN LEVEL 70.652 F BEGIN TEMP BEGIN WATER 0.0 GAL BEGIN WATER 0.000 IN END TIME ___16:21 . 2007/06/04 END DATE 11289.3 GAL 41235.3 GAL END GROSS END NET 65,449 IN -70.531 F END LEVEL END TEMP END-WATER --0.0 GAL END WATER 0.000 IN

HOURLY DATA

DÉG F GAL TIME 9:21 70.637 21700.22 70.621 21681.32 70.605 21703.26 70.590 21698.68 10:21 11:21 12:21 70.575 21702.64 70.569 21692.40 70.546 21701.75 70.531 21691.39 13:21 14:21 15:21 16:21

SLOPE -0.251 GAL/HR SLOPE LOW -0.353 GAL/HR SLOPE HIGH -0.149 GAL/HR TEST RESULT FAILED SLOPE EQUALS CALCULATED LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/06/04

11:31

LEAK TEST REPORT

TANK 3

6260.8 GAL

30 WT OIL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED TEST STARTED 2007/06/04 LAST DELIVERY 10:48 LAST DELIVERY 2008/01/21 GROSS CAPACITY 84.1% BEGIN GROSS 5268.2 GAL BEGIN NET 5238.9 GAL BEGIN LEVEL 74.515 IN 72.258 F BEGIN TEMP BEGIN WATER 0.1 GAL BEGIN-WATER 0.028 IN END-TIME 11:31 END DATE 2007/06/04 5268.2 GAL 5238.9 GAL END GROSS END NET END LEVEL 74.514 IN END TEMP 72.233 F END WATER 0.1 GAL END WATER 0.028 IN

HOURLY DATA

TIME DEG F GAL 72.250 5239.88 72.242 5238.89 9:21 10:21 72.235 5238,92 11:21

SLOPE 0.005 GAL/HR SLOPE LOW 0.004 GAL/HR SLOPE HIGH 0.006 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE

GROSS CAPACITY GROSS CAPACITY BEGIN GROSS 13228.3 GAL BEGIN NET 13141.6 GAL BEGIN WATER 73.072 F BEGIN WATER 6.0 GAL BEGIN WATER	
TANK 2 20032.7 GAL TANK 1 20032.7 GAL TANK 3 6260	
20032.7 GAL TANK 1 20032.7 GAL TANK 3 6260	
DIESEL	RT
DIESEL DIESEL 30 NT 01L	.8 GAL
LEAK TEST LEAK THRESHOLD 0.200 GPH LEAK THRESHOLD 0.100 GPH LEAK THRESH	
END WATER 73.089 F END LEVEL 70.933 IN END LEVEL 32.3 END WATER 73.089 F END TEMP 72.983 F END TEMP 74. END WATER 0.0 GAL END WATER 0.0 GAL END WATER 0.0 HOURLY DATA HOURLY DATA HOURLY DATA	00 GPH 99.0X 99.0X 23:59 208/01 10:48 20:42 30:42 30:43 30:4
TIME HOURLY DATA HOURLY DATA	
## 1:59	MLZER ASSED

P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 FOSS MARITIME 9030 MW ST HELENS RO POSS MARITIME 9030 NW ST. HELEN'S RD °. 0. 90% 83018 16:04 2007/08/02 PORTLAND DREGOM 97231 P. O. 80X 83018 LEAK TEST REPORT 1-503-286-9631 PORTLAND OREGON 97231 1-503-286-0631 **2007/08/0**2 TANK 2 20032.7 GAL 16:03 2007/08/03 14:49 LEAK TEST REPORT DIESEL LEAK TEST REPORT

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LEAK 0.100 GPH TANK 1 20032.7 GAL LEAK THRESHOLD 0.050 GPH - CONFIDENCE LEVEL 99.0% OIESEL CONFIDENCE LEVEL 99.8%

TEST STARTED 8:03

TEST STARTED 2007/08/02

LEAK TEST 0.200 GPH LAST DELIVERY 9:31

LEAK THRESHOLD 0.100 GPH GROSS CAPACITY 66.0%

CONFIDENCE LEVEL 99.0%

CONFIDENCE LEVEL 99.0%

BEGIN GROSS 13221.0 GAL

TEST STARTED 2007/08/03

TEST STARTED 2007/08/03

BEGIN NET 13142.3 GAL

BEGIN DELIVERY 9:31

LAST DELIVERY 9:31

LAST DELIVERY 9:31

BEGIN LEVEL 74.616 IN

BEGIN DELIVERY 2007/08/31

BEGIN WATER 0.0 GAL

BEGIN WATER 0.000 IN

BEGIN LEVEL 70.802 IN

BEGIN LEVEL 70.802 IN

BEGIN LEVEL 73.038 F

END DATE 2007/08/02

BEGIN WATER 0.9 GAL

BEGIN WATER 0.9 GAL

BEGIN WATER 0.9 GAL

BEGIN WATER 0.900 IN

BEGIN WATER 0.900 IN

BEGIN WATER 0.900 IN

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BEGIN WATER 0.900 IN

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BEGIN WATER 0.900 IN

BEGIN WATER 0.900 IN

BEGIN WATER 0.900 IN

BEGIN TIME 13141.9 GAL

BEGIN WATER 0.900 IN

BEGIN WATER 0.900 IN

BEGIN TIME 13141.9 GAL

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BEGIN WATER LEAK TEST
LEAK THRESHOLD 0.050 GPH
CONFIDENCE LEUEL 99.0%
TEST STARTED 8:03
TEST STARTED 2007/08/02
LAST DELIUERY 9:31
LAST DELIUERY 2007/07/31
GROSS CAPACITY 62.1%
BEGIN GROSS 12442.5 GAL
12369.0 GAL DIESEL. BEGIN TEMP 73.087 F
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.000 IN BEGIN NET 12369.0 GAL
END TIME 16:03 BEGIN LEUEL 70.889 IN
END DATE 2007/08/02 BEGIN TEMP 72.983 F
END GROSS 13220.7 GAL BEGIN WATER 0.000 IN
END LEUEL 74.614 IN END TIME 16:03
END TEMP .73.102.F. END DATE 2007/08/02
END WATER 0.0 GAL
END WATER 0.0 GAL
END WATER 9.000 IN
HOURLY DATA END TEMP 73.002 F
END WATER 9.000 IN BEGIN WATER 9.000 IN
BEGIN-WATER 9.000 IN
END TIME 14:49
END DATE 2007/08/03 END DATE END DATE END GROSS 12426.2 GAL 12352.4 GAL 12352.4 GAL 12352.4 GAL 70.812 IN END TEMP 73.058 F END WATER 9.000 IN 12426.2 GAL END WATER END WATER DEG F GAL 9.000 IN TIME 73.091 25520.32 73.092 25521.12 9:03 10:03 HOURLY DATA 73.094 25513.74 73.095 25512.72 73.098 25504.49 73.099 25510.30 73.101 25515.38 11:03 TIME 9:03 HOURLY DATA 12:03 DEG F GAL 72.986 25523.38 72.988 25518.13 DEG F GAL 13:03 73.041 25500.97 73.041 25500.97 73.044 25503.64 73.045 25498.58 73.047 25400.50 10:03 14:03 TIME 72.990 25509.70 72.991 25516.83 72.995 25510.49 72.998 25501.00 11:03 15:03 7:49 12:03 12:03 13:03 14:03 73.102 25509.46 9:49 16:03 9:49 73.847 25498.58 73.847 25498.52-73.858 25492.45 73.852 25499.42 73.855 25494.28 SLOPE -1.448 GAL/HR SLOPE LOW -1.548 GAL/HR 10:49 15:03 73.000 25510.25 73.002 25506.37 11:49 SLOPE HIGH -1.347 GAL/HR 16:03 12:49 TEST RESULT FAILED 13:49 73.058 25495.04 SLOPE EQUALS CALCULATED LEAK RATE 14:49 SLOPE -1.447 GAL/HR
SLOPE LOW -1.547 GAL/HR
SLOPE HIGH -1.346 GAL/HR
TEST RESULT FAILED
SLOPE EQUÁLS CALCULATED SLOPE SLOPE -0.548 GAL/HR SLOPE LOW -0.627 GAL/HR SLOPE HIGH -0.469 GAL/HR TEST RESULT FAILED LEAK RATE SLOPE EQUALS CALCULATED LEAK RATE 7 GAL DIESEL
LEAK TEST
LEAK THRESHOLD 0.100 GPH
CONFIDENCE LEUEL 99.0X
TEST STARTED ..6:49
TEST STARTED 2007/08/03
LAST DELIUERY 2007/08/31
CAST DELIUERY 2007/08/31
GROSS CAPACITY 66.0X
BEGIN NET 13143.3 GAL
BEGIN NET 13143.3 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
BEGIN WATER 0.0 GAL
END TIME 2007/08/03
END ORDES 13221.7 GAL
END NET 13142.6 GAL
END LEUEL 74.619 IN
END LEUEL 74.619 IN
END LEUEL 74.619 IN
END LEUEL 74.619 IN
END MATER 0.0 GAL
END WATER 0.0 GAL
END WATER 0.0 GAL PE / -0.548 GAL/HR PE LOW -0.627 GAE/HR PE HIGH -0.469 GAL/HR T RESULT PE EQUALS CALCULATED < RATE 6AL 25566.97 25583.64 25498.58 25498.52 25499.42 25499.42 25494.26 : MARITIME "... ST HELENS RD SOX SS818 OREGON 97231 3-286-0631

FOSS MARITIME 9030 NW ST HELENS RD

Confidential Business Information

FOSS MA 9030 NW ST P. O. 63 PORTLAND OR 1-503-2

 ${\bf c}_{N}$

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26. F 73.138 73.138 73.134 73.136 73.137 73.137 73.141 73.141

7:49 9:49 9:49 11:49 12:49 12:49 12:49 14:49 14:49 12:0PE

9030 N	್ರ 80%	ELENS 83018	
		200 77. 5-0631	20,
2007/09/9	12		7:
LEAK	TEST	REPOR	Ţ

TANK 1

20032.7 GAL

. DIESEL

LEAK TEST 0.200 GPH -LEAK-THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 23:59
JEST STARTED 2007/09/01
LAST_DELIVERY 0:19 LAST DELIVERY 2007/08/30 GROSS CAPACITY 51.0% BEGIN GROSS - 10208.1 GAL BEGIN NET 10143.3 GAL BEGIN LEVEL 60.395 IN 73.951 F BEGIN TEMP 0.0 GAL BEGIN WATER BEGIN WATER 9.000 IN END TIME 7:58 END DATE 2007/09/02 END GROSS 10209.1 GAL END NET 10144.4 GAL END_LEVEL -68:399 IN END TEMP 73,940 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

TIME DEG F GAL 73.949 19257.61 0:58 1:58 73.947 19254.59 2:58 73.946 19258.69 3:58 73.945 19263.04 73.943 19251.66 4:58 5:58 73.942 19265.25 6:58 73.940 19260.42 7:58 73.940 19263.43

SLOPE 0.839 GAL/HR
SLOPE LOW 0.750 GAL/HR
SLOPE HIGH 0.927 GAL/HR
TEST RESULT INCREASE
SLOPE EQUALS CALCULATED
LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/09/02

7:59

LEAK TEST REPORT

TANK 2 ---- - 20032-7-GAL----

DIESEL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL CONFIDENCE 23:59
TEST STARTED 2007/09/01
TEST STARTED 2007/09/01
0:19 LAST DELIVERY 2007/08/30 GROSS CAPACITY 45.8% BEGIN GROSS 9176.2 GAL BEGIN NET 9118.4 GAL BEGIN LEVEL ___55.578_IN-BEGIN TEMP 73.854 F BEGIM WATER 0.0 GAL SEGIN WATER 0.000 IN END TIME ____7:58_ 2007/99/02 END DATE 9176.9 GAL 9119.1 GAL END-GROSS END NET END LEVEL 55.581 IN END TEMP 73.838 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

DEG F GAL TIME 73.852 19257.61 73.849 19254.59 0:58 1:58 2:58 73,847 19258,69 73.845 19263.04 73.843 19251.66 3:58 4:58 5:58 73.841 19265.25 6:58 73.840 19260.42 7:58 73.838 19263,43

SLOPE 0.839 GAL/HR SLOPE LOW 0.750 GAL/HR SLOPE HIGH 0.927 GAL/HR TEST RESULT INCREASE SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME 9030 NW ST HELENS RD 'P. Q. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/09/02

2:49

LEAK TEST REPORT

TANK 3

6260.8 GAL

30 WT DIL

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH COMFIDENCE LEVEL TEST STARTED 23:59 2007/09/01 LAST DELIVERY 10:48 LAST DELIVERY 2008/01/21 TY 21.8% 1365.1 GAL GROSS CAPACITY BEGIN GROSS 13 BEGIN NET 1356.2 GAL 25,667 IN BEGIN LEVEL BEGIN TEMP BEGIN WATER 74.336 F 0.1 GAL 0.029 IN BEGIN WATER END TIME END DATE 2007/09/02 1365.1 GAL END GROSS END NET 1356.2 GAL 25.668 IN END LEVEL 74.342 F END TEMP END WATER 0.1 GAL END WATER 0.029 IN

HOURLY DATA

TIME DEG F GAL 0:58 74.338 1356.24 1:58 74.341 1356.23

SLOPE 0.002 GAL/HR SLOPE LOW 0.000 GAL/HR SLOPE HIGH 0.004 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/03

14:48

LEAK TEST REPORT

TANK 2

~20032.7 GAL

DIESEL

LEAK TEST LEAK THRESHOLL CONFIDENCE LEV TEST STARTED TEST STARTED LAST DELIVERY GROSS CAPACIT BEGIN GROSS BEGIN NET BEGIN TEMP BEGIN WATER BEGIN WATER	0 0.050 GPH VEL 99.0% 6:47 2007/12/03 5:01 2007/11/30 Y 50.4% 10102.9 GAL 10114.8 GAL 59.904 IN 57.411 F 0.000 IN
	14:47
END TIME END DATE	2007/12/03
END GROSS	10103.3 GAL
FND NET	10115.1_GAL
END LEVEL	59.906 IN
END TEMP	57.425 F
END WATER	0.0 GAL
END WATER	0.000 IN

HOURLY DATA

TIME	DEG F GAL '
7:47	57,410 21342.58
8:47	57.416 21342.88
9:47	57.415 21342.91
10:47	57.417 21343.03
11:47	57.420 21342.95
12:47	57.423 21343.05
13:47	57.425 21342.97
14:47	57.425 21342.98

SLOPE 0.035 GAL/HR
SLOPE LOW 0.033 GAL/HR
SLOPE HIGH 0.036 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RD P, D, BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/03

. .14:47

LEAK TEST REPORT

TANK 1 20032.7 GAL

DIESEL

LEAK TEST 0.100 GPH LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 6:47 TEST STARTED 2007/12/03 LAST DELIVERY 5:01 LAST_DELIVERY_2007/11/30 GROSS CAPACITY 56.0% BEGIN GROSS 11211.5 GAL 11227.9 SAL BEGIN NET <u>65.084 -IN</u> BEGIN-LEVEL BEGIN TEMP 56,776 F BEGIN-WATER --0.0-GAL 0.000 IN BEGIN WATER END TIME 14:47 END DATE - 2007/12/03 END GROSS 11211.5 GAL END MET 11227.8 GAL END LEVEL 65.084 IN END TEMP 56.786 F END WATER 0.0 GAL END WATER 0.000 IN

HOURLY DATA

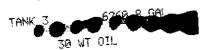
7:47 8:47 9:47	DEG F GAL 56-276-21342-71 56-777 21342-98 56-779 21342-87
10:47	56.781 21343.00
11:47	56.781 21342.97
12:47	56.781 21342.90
13:47	56.785 21343.09
14:47	56.786 21342.85

SLOPE 0.035 GAL/HR SLOPE LOW 0.033 GAL/HR SLOPE HIGH 0.036 GAL/HR TEST RESULT PASSED SLOPE EQUALS CALCULATED LEAK RATE FOSS MARITIME
9030 NW ST HELENS RD
P. 0. BOX 93018
PORTLAND OREGON 97231
\$503-286-0631

2007/12/03

9:58

LEAK TEST REPORT



0.100 GPH LEAK TEST LEAK THRESHOLD 0.050 GPH CONFIDENCE LEVEL 99.0% TEST STARTED 6:47 TEST STARTED 2007/12/03 15:14 LAST DELIVERY LAST DELIVERY 2007/09/26 GROSS CAPACITY 39.2% 2451.6 GAL BEGIN GROSS 2451.3 GAL BEGIN NET 39.370 IN BEGIN LEVEL 60.263 F BEGIN TEMP 0.0 GAL BEGIN WATER 0.000 IN BEGIN WATER 9:57 END TIME 2007/12/03 2451.5 GAL 2451.3 GAL FMD GROSS END NET 39.370 IN END LEVEL 60.238 F END TEMP 0.0 GAL END WATER 0.000 IN END WATER

HOURLY DATA

TIME DEG F GAL 7:47 60.264 2451.31 8:47 60.255 2451.25 9:47 60.242 2451.25

SLOPE -0.015 GAL/HR
SLOPE LOW -0.017 GAL/HR
SLOPE HIGH -0.014 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED

FOSS MARITIME 9030 NW ST HELENS RD 9. 0. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/02

10:

ALARM REPORT

2007/12/02 POWER DOWN

10:

2007/12/02 POWER UP

10:2

FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 93018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/02

15: 17

ALARM REPORT

2007/12/02 POWER DOWN

10:10

2007/12/02 POWER UP 15:16

FOSS MARITIME
9030 NW ST HELENS RD
9. 0. 80% 83918
PORTLAND OREGON 97231
1-503-286-0631

2007/12/02

19:14

ALARM REPORT

2007/12/02 POWER DOWN

19:1

2007/12/02 19:13 POWER UP Confidential Business Information FOSS MARITIME 9030 NW ST HELENS RD P. O. BOX 93018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/01

3:13

LEAK TEST REPORT

TANK 3

6260.8 GAĎ

30 MT 01L

LEAK TEST 0.200 GPH LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.0% TEST STARTED TEST STARTED 15:14 LAST DELIVERY LAST DELIVERY 2007/09/26 42.4% GROSS CAPACITY BEGIN GROSS 2652.8 GAE 2651.8 GAL BEGIN NET BEGIN LEVEL 60.867 E SEGIN TEMP 0.0 GAL BEGIN WATER BEGIN WATER 0.000 IN END TIME 2007/12/00 END DATE 2652.8 GAĞ END GROSS 2651.9 GAL END-NET-41.795 IN END LEVEL 60.820 F END TEMP 0.0 GAL END WATER 0.000 IN END WATER

HOURLY DATA

TIME DEG F GAL 1:00 60.853 2651.82 2:00 60.842 2651.81 3:00 60.825 2651.83

SLOPE 9.018 GAL/HR
SLOPE LOW 0.017 GAL/HR
SLOPE HIGH 0.020 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE

FOSS MARITIME 9030 NW ST HELENS RD P. O. SOX 83018 PORTLAND OREGON 97231 1-503-286-0631

2007/12/01

7:13

ALARM REPORT

2007/12/01 POWER DOWN

21 12

2007/12/01 POWER UP 7:1

00014316

FOSS MARITIME 9030 NW ST HELENS RD P. 0. BOX 83018 PORTLAND OREGON 97231 1-503-286-0631 2008/01/01 8:01 LEAK TEST REPORT	P. O. BOX 83018 PORTION OREGON 97231 2-10-286-0631 2008/01/01 8:01	LOW THAT DEPOSE
TANK 2 20032.7 GAL		
	TANK .1 20032:7 GAL	30 WT OIL
	DIESEL OAL	na at off
LEAK THRESHOLD 0.100 GPH CONFIDENCE LEVEL 99.00 TEST STARTED 0:01 TEST STARTED 2008/01/01 LAST DELIVERY 19:09 LAST DELIVERY 2007/12/29 GROSS CAPACITY 35.3% BEGIN GROSS 7069.8 GAL BEGIN NET 7093.8 GAL BEGIN LEVEL 45.626 IN BEGIN TEMP 52.541 F BEGIN WATER 0.000 IN END TIME 8:00 END DATE 2008/01/01 END GROSS 7966.5 GAL END NET 7992.1 GAL END LEVEL 49.895 IN END TEMP 52.941 F END WATER 0.000 IN	LEAK TEST	1:00 55.210 826.59 2:00 55 194 334 50
	LEAK RATE	

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9030 NW ST HELENS RD
                                                                                                                  FOSS MARITIME
                                                                                                              9030 NV ST HELENS RD
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                                                                                                             PORTLAND DREGON 97231
                                                             PORTLAND OREGON 97231-
                                                                                                                  1-503-286-0631
                                                                 1-503-286-0631
              FOSS MARITIME
                                                                                                            2008/03/01
          9030 NW ST HELENS RD
                                                          2008/81/01
                                                                                                                                    3:10
         P. O. BOX 83018
PORTLAND OREGON 97231
                                                                                                                LEAK-TEST REPORT
                                                                                   8:01
                                                              LEAK TEST REPORT
              1-503-286-0631
                                                                                                           TANK 3
                                                                                                                             6260.8 GAL
                                                         TANK 2
       2008/03/01
                                                                         20032.7 GAL
                                                                                                                    30 NT OIL
                                8:00
                                                                   DIESEL
            LEAK TEST REPORT
                                                                                                           LEAK TEST
                                                       LEAK TEST
                                                                                                                              0.200 GPH
                                                                                                           LEAK THRESHOLD 0.100 GPH
                                                       LEAK THRESHOLD 0 100 GPH
      TANK 1
                                                  CONFIDENCE
TEST STARTED
TEST STARTED
TEST STARTED
LAST DELIVERY
LAST DELIVERY 2008/02/28
GROSS CAPACITY
BEGIN GROSS 9131-5 GAL
BEGIN NET 9146.6-GAL
TEMP 55.368 IN
56.347 F
0.0 GAL
399 IN
                      20032.7 GAL
                                                                                                           CONFIDENCE LEVEL 99.0%
                                                                                                            TEST STARTED
                                                                                                                                    0:01
                 DIESEL
                                                                                                           TEST STARTED
                                                                                                                             2008/03/01
                                                                                                           LAST DELIVERY
                                                                                                                                8:29
      LEAK TEST
      LEAK THRESHOLD 0.100 GPH
                                                                                                           LAST DELIVERY 2008/01/17
     CONFIDENCE LEVEL 99.0%
TEST STARTED 0:01
TEST STARTED 2008/07/01
                                                                                                           GROSS CAPACITY
                                                                                                                                   61.0%
                                                                                                           BEGIN GROSS
                                                                                                                             3821.3 GAL
                                                                                                            BEGIN NET
                                                                                                                             3832.0 GAL
55.776 IN
                      _2008/03/01
     LAST DELIVERY
                                                                                                           BEGIN LEVEL
     LAST DELIVERY 2008/02/28
GROSS CAPACITY 44.2%
                                                                                                           BEGIN TEMP
                                                                                                                               53.852 F
                                                                                                           BEGIN WATER
                                                                                                                                9.0 GAL
                                                                                                           SEGIN WATER
END TIME
     BEGIN GROSS
                                                                                                                               0.000 IN
                     8849.7 GAL
                                                                      0.0 GAL
0.000 IN
    BEGIN NET
                                                                                                                                    3:10
                      8865.9 GAL
                                                 END DATE
END GROSS
                                                                                                           END DATE
    BEGIN LEVEL
                                                                                                                             2008/03/01
                       54.050 IN
    BEGIN TEMP
                                                                           8:00
                                                                                                           END GROSS
                                                                   2008/03/01
                                                                                                                             3821.3 GAL
                        55.980 F
                                                                                                                             3932.0 GAL
55.776 IN
                                                 END NET
    BEGIN WATER
                                                                   9130.9 GAL
                                                                                                           END HET
                         0.0 GAL
                                                 END LEVEL
   BEGIN WATER
END TIME
                                                                                                           END LEVEL
                                                                   9146.9 GAL
                       0.000 IN
                                                END TEMP
                                                                                                           END TEMP
                                                                                                                               53.855 F
                                                                   55.366 IN
56.144 F
   END DATE
END GROSS
                            8:00
                                                END WATER
                                                                                                           END WATER
                                                                                                                                0.0 GAL
                     2008/03/01
                                                END WATER
                                                                                                           END WATER
                                                                                                                               9.000 IN
                    8849.1 GAL
                                                                    0 A GAL
   END NET
                    8866.0 GAL
54.047 IN
55.788 F
                                                                   9.000 IN
   END LEVEL
                                                                                                                  HOURLY DATA
                                                      HOURLY DATA
   END TEMP
                                                                                                                        DEG F
                                              TIME
                                                                                                           TIME
  END WATER
                                                                                                                                GAL
                       0.0 GAL
                                                          DEG F
                                                                                                            1:00
                                                                                                                        53.854 3832.00
  END WATER
                                               1:00
                                                                   GAL
                                                         56.321 18012.74
                      9.000 IN
                                                                                                            2:00
                                                                                                                        53.854 3832.01
                                               2:00
                                                         56.296 18012.93
                                                                                                            3:00
                                                                                                                        53,855 3831,99
                                              3:គូគូ
                                                       56.269 18913.99
56.245 18913.19
56.221 18913.19
56.221 18913.96
         HOURLY DATA
                                              4:00
                                                                                                           SLOPE
  TIME
                                             5:00
                                                                                                                         -0.000 GAL/HR
             DEG F GAL
                                                                                                           SLOPE LOW -0.002 GAL/HR
SLOPE HIGH 0.001 GAL/HR
                                             6:00
   1:00
             55.956 18012.74
                                                       56.196 18013.01
            55.928 18012.93
   2:00
                                             7:00
                                                      56.171 18013.02
                                             8:00
  3:00
                                                                                                           TEST RESULT
                                                                                                                                 PASSED
            55.901 18013.00
                                                      56.144 18012.87
                                                                                                           SLOPE EQUALS CALCULATED
  4:90
            55.879 18013.10
                                          SL.OpE
                                                                                                           LEAK RATE
  5:00
                                         SLOPE LOW 0.024 GAL/HR
SLOPE HIGH 0.029 GAL/HR
TEST RESULT PASSED
            55.852 18013.06
                                                         0.026 GAL/HR
  6:00
            55.828 18013.01
  7:00
           55.806 18013.02
  8:00
           55.788 18012.87
                                        SLOPE EQUALS CALCULATED
LEAK RATE
SLOPE
               9.926 GAL/HR
SLOPE LOW
               0.024 GAL/HR
SLOPE HIGH 0.029 GAL/HR
```

TEST RESULT

LEAK RATE

SLOPE EQUALS CALCULATED

PASSED

	SENK RATE
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9030 NW ST HELENS RD	STOPE RESULT CALCULATED ON SMATTER AND STORE
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PORTLAND OREGON 97231	
1-593-286-9631	P. 0. 80X 83018 — PORTLAND-OREGON 97231 1-503-286-8631 3H/7H9 ZZI Z36- 34078 3H/7H9 ZZI Z36- 34078
2008/02/01 3:11	
2008/07/01 3:11	7.008 NO. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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LAST DELIVERY 2008/01/17	LAST DELIVERY 2000 OR OF THE STATE ON
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BEGIN WATER 0.0 GAL	BEATH WATER - 0.0000 0000 0000 00000 0000000000000
BEGIN WATER 0.000 IN END TIME	- SINN - 1
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3:00 60.247 4839.56	3:00 49.235 28605.31 4:00 49.296 26275.88
SLOPE 0.026 GAL/HR	4:00 49.296 26275.88 4:00 49.322-23403.09 THO 2.72007
SLOPE LOW 0.023 GAL/HR	
SLOPE HIGH 0.029 GAL/HR	6:00 49.325 23392.13 7:00 49.330 23392.13 9:00 49.326 23392.37
TEST RESULT PASSED	8:00 49.326 23392.37
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	STODE EMATE
•	FEUN WILL
,	!



Pika's Unlimited 3258 Cascade Hwy NE Silverton, OR 97381

503- 873-8070
Fax: 503-873-4139
Celt: 503-3029144
Email:pike'sunlimited@yahoo.com

Tax Registration #: BIN 123627-5

en To:

FOSS MARITIME FO. BOX 83518 Portland ,Or 97283-8818 Invoice

Invoice No:

- 11

Date:

7/13/2006

Terms:

Net 10 7/23/2006

Due Date: Order No: Territory:

Sales Person:

PO#523570

Ship To:

Site adress, tested 9030 NW St. Helens Road (97231) Portland,Or

Ship Date		Tracking No	FOB
5/23/2006	<shipvia></shipvia>	<tracking number=""></tracking>	<shipping_fob></shipping_fob>

Code	Description	Qty/Hours	Rape	Amoun
	Line Complence Test	3.00	\$175.00	\$525.00
	Line Leak Detector Test	2.00	\$50.00	\$100.00
	ATG 3ed Party Certification	1.00	\$100.00	\$100.00
	DEQ Inspection review	1.00	\$350.00	\$350.00
	as builts and cp check.	1.50	\$75.00	\$112.50
,,	install galvinic system piping	1.00	\$900.00	\$900.00
	DEQ NO show	1.00	\$25.00	\$25.00
	SSN# Jeff Pike	1.00	\$0.00	\$0.00

We appreciate your business.

Subtotal	\$2	112.50
Tax (0.00%)		\$0.00
Shipping		\$0.00
Total	\$2,	1.12.50
Deposit	•	\$0.00
Balance Due	\$2,1	12.50

Indicates non-taxable item

STATE OF OREGON Department of Agriculture MEASUREMENT STANDARDS 635 Capitol Street NE	S DIVISION		BUL		ROLEUM		Form 2	POR'	
Salem, Oregon 97301-2532				Date (/-	-23-05-	Time	ජ: 30	AM PM	Duration
Firm Name			_	License St	atus Number	ssued	Number Re	quired	Number Tested
Mailing Address Firm Number						-	2-G License Nur		_/G
660	W Enka	<u> </u>			110797			666	پ ھ
City / State / Zip Code	- WA	, 9 81 19	County No.	Operator /	corporation Name	8			
Device Location		5 //- 5	- ·	Previous F	irm Name			ســـــــــــــــــــــــــــــــــــــ	
9 で 3 っ City / State / Zip Code	<u> ۱۷ ن</u> <u>۲</u> ۰	4. Heleni	County No.	Seasonal		•	Phone Numb)AI	
	d or	87603	26	Months: _	b			, u	
EQUIPMENT Type of Inspection (1 - 10)	Bottom 3	2	3		4		5		6
Vehicle Identification No.	ا كان لا								
Meter Make	Tokhen								
Meter Serial Number	1437128				<u> </u>				
Meter Capacity	120/24			No amin's					
Register Serial Number	C505725713								
Product(s) Metered	10,2,2l4,					1	_		
License Type	E								
Totalizer End	1482524					\overline{A}	· · · · · · · · · · · · · · · · · · ·		
Totalizer Start	14813.8								
Total Returned	116								
Prover Size in Gal. / Litres	103)
TEST RESULTS 1	+25 N								
2		,							
N= Normal 3	P. Lie)				
S= Special 4	೧.೭			4					
A= Air Eliminator 5			ļ <u>.</u>	4			/_		
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Reading 7			/.						
Device Correct	767					4			
Correction Required									
Days For Repair	/ou								
Repair Tag No. * Rej. Code	/								
REMARKS: Class 1	RNO 64350								<u>. </u>
							10-/	<u>ح ہ</u>	
		·····							
			15						
Department Representative:	/		Operato	Copy Receiv	Ted By:	<u>\</u>			~~
	(NUV)	1070 (PAN /PA	<u> </u>		ν <u></u>	ı. Iene	\ noc 4755	.	POSTED:
For Information By Phone:	SALEM (503) 986					ı. (503 		No	Yes
White Report Page = OFFICE		Yellow Rep	ort Page = IN	SPECTOR			Pink Re	port Paç	je = OPERATOR

STATE OF OREGON **BULK PETROLEUM METER REPORT** ment of Agriculture COL *'EMENT'* STANDARDS DIVISION Retest Form 2044 Rev. 9/02 635 Cannol Street NE Salem, Oregon 97301-2532 Time Duration ΑM 1:55 5-24-05 PM. Firm Name License Status Number Issued Number Required Number Tested tose Maritime <u>ک لح</u> 2. G Mailing Address Firm Number License Number 8666 4 G 1070-County No. City / State / Zip Code Operator / corporation Name 98119 LU Device Location Previous Firm Name Helens Rd City / State / Zip Code County No. Phone Number Seasonal 97203 012 Months: b Type of EQUIPMENT 3 4 5 6 DESCRIPTION کهرو D 3060 Vehicle Identification No. 708hs. a Ticheim Meter Make 1427928 14.35736 Meter Serial Number 121/24 (20/24 **Meter Capacity** 167110 145951 Register Serial Number 9.270 July Product(s) Metered License Type 40362,32 899255.7d **Totalizer End 49973**4.3 4176117 Totalizer Start 115 215 Total Returned /oo 129 Prover Size in Gal. / Litres TEST RESULTS - 50 +500 1 in Cubic Inches 2 N= Normal 3 and the S= Special 4 5 A= Air Eliminator 5923 6 X= Adjusted زن 🖊 🍱 Reading الشامين C **Device Correct** Promiser Every Correction Required . 5 Days For Repair * Rej. Code 21 Repair Tag No. Bottom Work to Error REMARKS: (🛠) a. Chin Department Representative: Operator Copy Received By: POSTED: For Information By Phone: SALEM (503) 986-4670 / FAX: (503) 986-4734 / TDD Hearing Impaired: (503) 986-4762 Yes REJECTION CODES ON REVERSE SIDE

White Report Page = OFFICE

Yellow Report Page = INSPECTOR

Pink Report Page = OPERATOR

REJECTION CODES

Tolerance

- 1. Tolerance-maintenance
- 2. Tolerance-acceptance
- 3. Tolerance-decreasing load test
- 4. Tolerance-shift/section test
- Tolerance-more than 50% of devices at location with minus errors in favor of the operator
- Tolerance-more than 50% of devices of specific grade with minus error in favor of the operator

Computer / Register / Indicator

- Components-burned out in customer/ operators display
- 8. Computed price error
- Computer/Register-advances when turned on
- 10. Glass-broken/missing
- Indications-customer and operator do not agree
- 12. Indications-customer view obscured
- Indications-device and remote do not agree
- 14. Indications-does not repeat
- 15. Indications-start other than zero
- 16. Indicator-does not return to zero
- 17. Indicator-missing/broken
- 18. Indicator-needs to be adjusted
- 19. Register head not legal
- 20. Unit price error

Hose / Nozzle

- 21. Anti drain valve-defective
- 22. Back flow protection-inadequate
- 23. Diversion Of Measured Liquid-two hoses down stream from meter
- 24. Hose-defective/leaking

Printer

- 25. Printer error
- 26. Receipt/Ticket-incomplete/incorrect information

REJECTION CODES

Identification

- 27. Alcohol labeling-missing/incorrect
- 28. Identification plate-missing/obliterated
- 29. Product Identification-missing/incorrect product identification
- 30. Storage tanks-not properly identified

Security Seal

- 31. Security Seal-broken or missing
- 32. Security Seal-no provision for sealing adjustable mechanism

Meters

- 33. Air eliminator-defective
- 34. Control valve-defective
- 35. Flow rate-Exceeds manufacture rate capacity
- 36. Temperature compensator-defective
- 37. Thermometer well-missing unable to test
- 38. Vapor eliminator-defective
- 39. Vapor return valve-missing unable to test
- 40. Zero set back interlock-defective

Weighing Devices

- 41. Customer-Weight display missing
- 42. Interference-live parts are not free from interference
- 43. Level-not maintained in level condition
- 44. Supports/mountings-inadequate
- 45. Weighing Operation-weighing operation obscured
- 46. Weighing platform-has insufficient clearance
- Scale capacity, section capacity and/or concentrated load capacity not identified

Weighing/Measuring Devices

- 47. Accessibility-not accessible for testing
- 48. Class markings missing/incorrect
- 49. Device does not operate properly-unable to test
- 50. Device not safe for testing
- 51. Legal for trade-device not legal for trade
- 52. Licensing
- 53. Off and On Switch-defective
- 54. Other: see hand written remarks
- 55.
- 56. Suitability-not suitable for intended use
- 57. Supports/mountings-inadequate

L.A. STATE OF OREGON **BULK PETROLEUM METER REPORT** Department of Agriculture COL MEASUREMENT STANDARDS DIVISION Retest 635 Capitol Street NE Time ΑМ Duration Salem, Oregon 97301-2532 /∵3<u>⊙</u> ĒΜ 1.0 Firm Name License Status Number Issued Number Required **Number Tested** 6 1055 MAR. TIME 26 2 5 Mailing Address Firm Number License Number W. Ewing 660 110797 86667 (- County No. City / State / Zip Cede Operator / corporation Name ea 46 98004 WA Device Location Previous Firm Name Him lims 9030 Rul City / State / Zip Code County No. Phone Number Seasonal oralas 97207 Months: Type of **EQUIPMENT** 1) scr 2 3 4 5 DESCRIPTION Busin $\tau_{\eta} \rho$ Vehicle Identification No. Tocheru Tokhem Meter Make 35731 37928 Meter Serial Number Meter Capacity EPu 120/24 174/24 145951 167110 Register Serial Number nevel H5 O. esely Product(s) Metered License Type **Totalizer End Totalizer Start** 213 110 **Total Returned** 100 100 Prover Size in Gal. / Littes 425 rime **TEST RESULTS** 1 in Cubic Inches ·5V N 2 N= Normal 3 S≈ Special 4 5 A= Air Eliminator 6 X= Adjusted 2/W08 c/w or Reading 7 294 **Device Correct** Correction Required 05 Days For Repair * Rej. Code Repair Tag No. REMARKS:

Department Representative: Operator Copy Received By: POSTED: For Information By Phone: SALEM (503) 986-4670 / FAX: (503) 986-4734 / TDD Hearing Impaired: (503) 986-4762 No Yes REJECTION CODES ON REVERSE SIDE White Report Page = OFFICE Yellow Report Page = INSPECTOR Pink Report Page = OPERATOR **Confidential Business Information**

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- 53. Off and On Switch-defective
- 54. Other: see hand written remarks
- 55.
- 56. Suitability-not suitable for intended use
- 57. Supports/mountings-inadequate



Recieved 12 /21/05
February 10, 2005

Department of Agriculture

635 Capitol Street NE Salem, OR 97301-2532



FOSS MARITIME CO 660 W EWING ST SEATTLE WA 98119-1587

RE: Petroleum Meter Calibration Equipment

Recently we have had questions brought to our attention regarding types of certification equipment and certification intervals of equipment used to test and calibrate high-flow petroleum meters commonly used on loading terminals, jobber loading racks, and delivery trucks.

All graduated neck type large volumetric measures (100 gallon nominal capacity or larger) must meet National Institute of Standards and Technology (NIST) Handbook 105-3 requirements and be certified at least once every two years by a state or accredited NIST recognized traceable metrology laboratory. Prior to use, the calibration reports must be sent to the Oregon Department of Agriculture (ODA), Measurement Standards Division.

All dynamic small volume provers must meet NIST Handbook 105-7 requirements and, once it has met its initial verification interval, be certified at least once every two years by a state or accredited NIST recognized traceable metrology laboratory with certification credentials for dynamic small volume provers. Suitable test facilities and traceability must be established prior to use of a dynamic small volume prover. Prior to use, the calibration reports must be sent to the ODA Measurement Standards Division.

If any security seals are broken or meters are calibrated, then the ODA Measurement Standards Division must be notified in writing within 24 hours. This documentation must include the meter make and serial number, the calibration factors before and after adjustments, and all appropriate test results must be included in this documentation.

At the written request of the business's manager, ODA Measurement Standards Division staff may conduct certification examinations in conjunction with service companies. The written request must include the specific date(s) of the tests or the statement "Effective until changed or permission is removed by the approving manager or terminal representative".

Once again, all certification equipment must meet applicable NIST Handbook 105 series requirements, have current calibrations, and calibration reports submitted to the ODA Measurement Standards Division prior to use.

Calibration equipment certification reports and written requests must be mailed to:

Oregon Department of Agriculture Measurement Standards Division 635 Capitol Street NE Salem, OR 97301-2532

If you have any questions, please do not hesitate to contact the ODA Measurement Standards Division at 503-986-4670.

TANK LEAK DETECTION

THIS SECTION SHOULD CONTAIN, BUT IS NOT LIMITED TO THE FOLOWING:

- DESCRIPTION OF THE METHOD OF LEAK DETECTION USED AT THE SITE, DATE INSTALLED OR INITIATED AND ANY OTHER PERTINENT DATA (INSTALLER, PERMITS, ETC.)
- MANUAL, INSTRUCTIONS, OR METHOD OUTLINE
- THIRD PARTY CERTIFICATION
- ANNUAL MONITOR INSPECTION/CERTIFICATION
- O & M SCHEDULE AND REPORTS FOR METHOD USED
- MONTHLY REPORTS
- TESTING
- OTHER INFORMATION AS NECESSARY

In ventory reconcillation OK Now untill 2008

Statictical Inventory reconcillation (3rd party certified (SIR)

Tank guaging)

Automatic guages must do . 2 GPH test on each tente monthly. This must be kept for 12 months
This is by a 3rd party tank guage

July Incon-scald 19 3rd party certs. For max thru-put of tanks Incon, com for more info

Interstitial monitors space between walls of Double wall tanks.

A. GENERAL REQUIREMENTS FOR PETROLEUM USTS

- An appropriate primary release detection method for the UST system (OAR 340-150-0420 through 340-150-0470) must be selected. More than one method may be in use at an UST facility, but only one can be the primary method.
- The primary method must be reported to the Department when an UST is installed or during an inspection by the Department. [For example, the primary release detection method cannot be switched from month to month depending on which method passes daily or monthly monitoring requirements. The primary method of release detection can be changed to another method as necessary as part of a repair, modification or replacement, or if the period of use for a method has expired by rule.]
- A method of release detection for petroleum UST systems must be provided that:
 - Can detect a release from any portion of the UST and the underground piping that routinely contains a regulated substance.
 - Is an approved leak detection method/equipment as listed by a national organization (e.g., the National Work Group on Leak Detection).
 - Is installed, calibrated, operated and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.
 - Meets the performance requirements of 340-150-0410 for underground piping, including any manufacturer performance claims (with the method for determining compliance with performance claims described in writing by the equipment manufacturer or installer).
 - Is capable of detecting the leak rate or quantity specified for that method in OAR 340-150-0450 through 340-150-0470 or 340-150-0410 for piping, with a 95-percent probability of detection and a 5-percent probability of false alarm. Release detection methods permanently installed before December 22, 1990 are exempt from the requirements of this subsection.
- When a release detection method indicates a release may have occurred, the Department must be notified of a suspected release in accordance with OAR 340-150-0500.
- Records must be maintained that demonstrate compliance with all applicable requirements and the following records must be retained for as long as the release detection equipment is in use:
 - All written performance claims pertaining to any release detection system used and the third-party evaluation and approval.
 - The results of any sampling, equipment testing, or monitoring.
 - Written documentation of all calibration, maintenance and repair of release detection equipment permanently located on-site, including any schedules of required calibration and maintenance provided by the release detection equipment manufacturer.
- The permittee must keep release detection records either at the UST facility and immediately available for inspection by the Department or available for inspection at a readily available alternative site.
- The codes and standards listed in *Appendix I of Division 150* may be used to comply with release detection requirements.

MONITORING SYSTEM CERTIFICATION

This form is used to document the testing and servicing of monitoring equipment. A separate certification must be repared for each monitoring system control panel. A copy of this form must be kept by the tank system owner/operator and available to the DEQ upon request.

Facility Name:	Bldg No	o
Site Address:	City: Zip:	· · · · · · · · · · · · · · · · · · ·
Contact Person:	Phone:	
Make/Model of Monitoring System:	Date:	
B. Inventory of Equipment Tested/Certified		1
Tank ID:	Tank ID:	
In-Tank Gauging Probe. Model:	In-Tank Gauging Probe	Model:
Annular Space/Vault Sensor Model:	Annular Space/Vault Sensor	Model:
Piping Sump/Trench Sensors Model:	Piping Sump/Trench Sensors	Model:
Fill Sump Sensors Model:	Fill Sump Sensors	Model:
Mechanical Line Leak Detector Model:	Mechanical Line Leak Detector	Model:
Electronic Line Leak Detector Model:	Electronic Line Leak Detector	Model:
Tank Overfill/High Level Sensor Model:	Tank Overfill/High Level Sensor	Model:
Other	Other	
Tank ID:	Tank ID:	
In-Tank Gauging Probe. Model:	In-Tank Gauging Probe	Model:
Annular Space/Vault Sensor Model:	Annular Space/Vault Sensor	Model:
Piping Sump/Trench Sensors Model:	Piping Sump/Trench Sensors	Model:
Fill Sump Sensors Model:	Fill Sump Sensors	Model:
Mechanical Line Leak Detector Model:	Mechanical Line Leak Detector	Model:
Electronic Line Leak Detector Model:	Electronic Line Leak Detector	Model:
Tank Overfill/High Level Sensor Model:	Tank Overfill/High Level Sensor	Model:
Other	Other	
Dispenser ID:	Dispenser ID:	(Appendix and Appendix and Appe
Dispenser Containment Sensors Model	Dispenser Containment Sensors	Model
Shear Valve(s)	Shear Valve(s)	
Dispenser Containment Float(s) and Chain(s)	Dispenser Containment Float(s) a	nd Chain(s)
Dispenser ID:	Dispenser ID:	
Dispenser Containment Sensors Model	Dispenser Containment Sensors	Model
Shear Valve(s)	Shear Valve(s)	
Dispenser Containment Float(s) and Chain(s)	Dispenser Containment Float(s) ar	nd Chain(s)
Dispenser ID:	Dispenser ID:	
Dispenser Containment Sensors Model	Dispenser Containment Sensors	Model
Shear Valve(s)	Shear Valve(s)	100.10
Dispenser Containment Float(s) and Chain(s)	Dispenser Containment Float(s) ar	
Certification – I certify that the equipment identified in guidelines, and that the documentation necessary to verity the a		
Technician Name (print):	Signature:	

CONTRACT ENVIRONMENTAL SERVICE 2005 S.W. 198th Ave. Aloha, OR 97006 503/259-2961

D. Ke	suits o	i i estin	g/servicing.					
Software	e Versior	n Installed	i:					
Comple	te the fo	llowing c	checklist:					
YES*	NO*	N/A	neckist.					
1 123	110	11/A	Is the audible alarm operational?					
			Is the visual alarm operational?					
			Were all sensors visually inspected, functionally tested, and confirmed operational?					
	·	 	Were all sensors installed at the lowest point of secondary containment and positioned so that other					
		1	equipment will not interfere with their proper operation?					
	1		For pressurized piping systems, does the turbine automatically shut down if the piping secondary					
			containment monitoring system detects a lead, fails to operate, or is electrically disconnected?					
			Was positive shut-down confirmed?					
	·		For tank systems that utilize the monitoring system as the primary tank overfill warning device, is the					
		•	overfill warning alarm audible at the tank fill point(s) and operating properly?					
	1		Is the overfill alarm set at 90% or less?					
·	l	1	Was any monitoring equipment replaced?					
		1	Was liquid found in any secondary containment systems designed as dry systems?					
]	Was monitoring system set-up reviewed to ensure proper settings?					
			Is all monitoring equipment operational per manufacturer's specifications?					
		ging / Su	Check this box if tank gauging is used only for inventory control. Check this box if no tank gauging or SIR is installed.					
YES	NO*							
		Has all	input wiring been inspected for proper entry and termination, including testing for ground faults?					
		Were al	Were all tank gauging probes visually inspected for damage and residue buildup?					
			curacy of system product level readings tested?					
			curacy of system water level readings tested?					
			ll probes properly reinstalled?					
		Were al	Were all items on the equipment manufacturer's maintenance checklist completed?					
F. Line	Leak De		LLD): Check this box if LLDs are not installed.					
1123	NO	1 1//A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD					
			performance? 3 g.p.h. ; 0.1 g.p.h.; 0.2 g.p.h.					
			Were all LLDs confirmed operational and accurate within regulatory requirements?					
			Was the testing apparatus properly calibrated?					
			For mechanical LLDs, does the LLD restrict product flow if it detects a leak?					
			For electronic LLDs, does the turbine automatically shut-off if the LLD detects a leak?					
			For electronic LLDs, does the turbine automatically shut-off if any portion of the monitoring system is					
			disabled or disconnected?					
			For electronic LLDs, does the turbine shut-off automatically if any portion of the monitoring system					
•			malfunctions or fails a test?					
			For electronic LLDs, have all accessible wiring connections been visually inspected?					
*Evel-in	b.c4	a more 1 = 5 =	Were all items on the equipment manufacturers maintenance checklist completed? d and/when deficiencies were or will be corrected below.					
Commer		is replace	d and/when deficiencies were or will be corrected below.					



Petroleum Compliance Services

Date: 9-8-07

Subject: Annual Line test Attention: Linda Brown

Linda,

System looks good, small leak still in transfer sump it was there last year.

The shut of vales to the dock move real easy, someone could open them by bumping into them.

You might consider changing the handles on them.

I change the name last year taxes information is still the same as well as the address.

Thanks for the work

Jeff Pike

Office 503-873-4139 Fax 503-873-8070 Cell 503-302-9144 Email <u>pikesunlimited@yaboo.com</u> 3258 Cascade Hwy NE Silverton, Or 97381

NACE CPI # 1109 * DEQ Testing #1109 * CP #26449



Petroleum Compliance Services 3258 Cascade Hwy NE Silverton, OR 97381

> 503- 873-4139 Fax: 503-873-8070 Cell: 503-302-9144

Email:pike'sunlimited@yahoo.com Tax ID 544-76-25-35

Tax Registration #: BIN 123627-5

Bill To:

Foss Maritime 9030 NW St helens Road Portland, Or 97231 Ship To:

Linda Brown linda@foss.com 503-978-6546 fax 503-735-4976 COPY

Ship Date // 9/8/2007

Ship Via

<shipvia>

Tracking No

<tracking number>

FOB

<shipping_fob>

Code	Description	Qty/Hours	Rate	Amount
	Annual line test 3 lines	3.00	\$175.00	\$525.00
	Line Leak detectors	2.00	\$50.00	\$100.00
	CP test (no Charge)	1.00	\$0.00	\$0.00



Invoice

Ш

9/8/2007

Net 05 9/13/2007

Invoice No:

Date:

Terms:

Due Date:

Order No:

Territory:

Sales Person:

Indicates non-taxable item

\$625.00	Subtotal
\$0.00	Tax (0.00%)
\$0.00	Shipping
\$625.00	Total
\$0.00	Deposit
\$625.00	Balance Due

PETROLEUM COMPLIANCE SERVICES LLC

Office 503-873-4139 Fax 503-873-8070

Tank Monitor Annual Third Party Certification

Make INCON

Serial#

Services Performed	PASS	FAIL	N/A
1. Run system Diagnostic check.			
2. Verify setup values and programmable Info.			
3. Verify monitor inventory levels and tank stick readings.			
4. Verify battery back-up.			
5. Test remote communications.			
6. Test overfill alarm for correct operations.			
7. Verify last tank test passed.			
In Tank Probes-Annual Service.			
Services Performed	YES	NO	N/A
1. Run probe diagnostic check.			
2. Inspect sensor cables and connections.		-	
2. Inspect sensor cables and connections.3. Inspect probe floats and probe for residue build-up.		-	
•			
3. Inspect probe floats and probe for residue build-up.	YES	NO	N/A
3. Inspect probe floats and probe for residue build-up. Sump Sensors-Annual Services	YES	NO	N/A
3. Inspect probe floats and probe for residue build-up. Sump Sensors-Annual Services Services Performed	YES	NO	N/A
3. Inspect probe floats and probe for residue build-up. Sump Sensors-Annual Services Services Performed 1. Run sensor diagnostic.	YES	NO	N/A

DATE: 9-6-07

Customer; Foss Maritime

4. Clean and inspect.

Address: 9030 NW St Helens Rd 97231

Technician; Jeff Pike

DEQ Certification# 25892

NOTES: Third Party to be performed by Mascott Equipment.

LINE/ TURBINE INFORMATION

Lines ID	Diesel 1 AEFG	Diesel 2 AEFH	Lube Oil AEGN
Piping type: Enviorn (S) Single wall (D) Double wall	D	D	D
2. Pump Type (T) tribune (S) Suction	Т	T	Sin pump
3. If turbine is Line Leak Detector present (YES) (NO)	Yes	Yes	No .
4. Line shut of at tribune (YES) (NO)	Yes	Yes	Yes
5. Turbine operating pressure			

VISUAL INSPECTION AND MAINTANCE

	YES	NO	N/A	Comments/Observations
Clean sumps Water/fuel	X			Sumps clean and well maintained.
Visual inspect Exposed Piping	X			Good
Emergency stop Location/working			X	Mascott
ATG cabinet Securely mounted			X	Mascott
Dispensers Secured	X			

DATE: 9-06-07

Customer: Foss Maritime

Site Address: 9030 NW ST Helens RD Portland, Or 97321

Technician: Jeff Pike DEQ Certification # 25892 NOTES: Lube Oil has no Leak Detector. Sump sensor is used for compliance detection.

DATA CHART FOR USE WITH PETROTITE LIN TESTER

DATE: 9-06-07

Station: Foss Maritime

Site address: 9030 NW St Helens Rd Portland, OR 97321

Owner: Foss Maritime

Operator: Foss Maritime

Reason for test: Annual compliance test.

Special instructions; none Testing Company: Petroleum Compliance Services LLC.

Weather: clear	Temp 74	Surface Ac/concrete		Line burial Depth; 3' Length; 40'				
Identify each Line tested	h Time tested Pressure		Volume	Volume Readings ML				
		Before	After	Before	After	Net change	Bleed Back	
Diesel 1 AEFG	Start 9:20	Start 60PSI	60 PSI					
	Finish 10:10	60 PSI	60 PSI			0.00		
Diesel 2 AEFH	Start 10:20	Start 60PSI	60 PSI					
	Finish 10:50	60 PSI	60 PSI			0.00		
Lube Oil AEGN	Start 10:50	Start PSI 50	50 PSI					
	Finish 11:15	50 PSI	50 PSI			0.00		
	Start	Start PSI	PSI					
	Finish	PSI	PSI		· · · · · · · · · · · · · · · · · · ·	0.00		
Test Results		SS/FAIL		Volume Net Cha]	Date Tested	
	Diesel 1	Pass		zero			9-6-07	
26-07	Diesel 2 Lube Oil	Pass Pass		zero			9-6-07 9-6-07	
			į					

The test results indicate the systems condition at the time of testing. The results do not carry and implied warranty or guaranty of the system after the test date.

MECHANICAL LEAK DETECTORS TEST RESULTS

DATE: 9-6-07

Company Performing: Test Petroleum Compliance Service

Tech: Jeff Pike Site Name: Foss Maritime

	NW ST Helens RD Portland	, Or 97321
Product Type: Diesel 1		
Type of Leak Detector: Red Jacket		SSN#
Type of line Tested: Environ		· · · · · · · · · · · · · · · · · · ·
3GPH TEST Results	PASSED	FAILED
Replaced Leak Detector YES	NO	
If Yes Type of new replacement:	SSN#	
Product Type: Diesel 2		
Type of Leak Detector: Red Jacket		SSN#
Type of Line Tested: Environ	<u></u>	
3 GPH Test Results	PASSED	FAILED
Replaced Leak Detector YES	NO	
If Yes type of new replacement:	SSN#	
Product Type: Type of Leak Detector:	SSN#	
Type of Line Tested:		
3 GPH Test Results;	PASSED	FAILED
Replace Leak Detector Yes	NO	
If Yes type of new replacement:		SSN#
Product Type: Diesel		
Type of Leak Detector:	· · · · · · · · · · · · · · · · · · ·	SSN#
Type of Line Tested:		
3 GPH Test Results:	PASSED	FAILED
Replaced Leak Detector Yes		
If Yes type of new replacement:		

			dic Protection			•	
	<u> </u>	UST Own			UST Facil		
NAME Foss Maritime			NAME: Foss Maritime		······································	D#:	
ADDRES	S: 9030 NW St. I	Helens Road		ADDRESS: 9030 NW St	Helens Road	<u>, </u>	
CITY: Por	rtland 97231		STATE: OR	CITY: Portland 97231		s	STATE: OR
	******		Cathodic Pr	otection Tester			
TESTER'	S NAME: Jeff Pil	ke		CP TESTER'S LICENSE	#: 26449		
COMPAN	IY NAME: Petrol	eum Compliance	Services	EXPIRATION DATE: 05-	25-2009		
ADDRES	S: 3258 Cascade	Hwy NE		PHONE NUMBER: 503-8	73-4139		
CITY: Silv	/erton		STATE: OR	NACE CERTIFICATION	#: 10096		
Cathodic	protection syster	mis: [xx] Galv	vanic [xx] Impresse	ed current Date Last Te	sted: 2006		
Weather (Conditions at Tim	ne of Testing/Insp	pection: Clear				
Temperat	ure: 80	Soil/Backfill Co	onditions (circle): moist_dry	sand gravel soil Desc	ribe: clay		
Catho	odic Prot	ection Sy	stem Certification	on	· ,		
			esting situations is bei		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
<u>C</u> The cat 2002 ar	ourtesy Che thodic protec	<i>eck</i> ction system 2001, and is	nths of any repair activities is effective, testing was providing cathodic pr	as performed accordi	nd product li		
UST	SYSTE	EM INFO	ORMATION			· · · · · · · · · · · · · · · · · · ·	
TANK#	YR TANK INSTALLED	CAPACITY	TANK MATERIAL	LINED? Y/N Date	YR CP INSTALLED	PIPING MATERIAL	YR CP INSTALLED
1	Diesel 1		Steel			Environ	
2	Diesel 2		Steel			Environ	
3	Lube Oil					Environ	
· · · · · · · · · · · · · · · · · · ·							
		 -					
						ļ	ļ

UST SITE PLAN – On the back draw a diagram showing the important parts of the facility (tanks, lines, man way locations, turbines, vents, rectifier, pump islands, buildings). Indicate reference cell locations where structure-to-soil potential or continuity measurements have been made and label(R-1, R-2, R-3); location of all anodes and wires; location of CP test stations.

March 2006 Page 3 of 5

DEQ-06-LQ-019

Facility Name: Foss Maritime Test Date: 09-6-07. Facility #

IMPRESSED CURRENT CP TEST RESULTS REPORT PAGE											
	RECTIFIER DATA										
			URER: Benc	n Mark	(ATED DC OU			MPS	
	TIFIER M						CTIFIER SE				
RECT	IFIER C	UTPUT AS					RECOMMEN		lable): V0	OLTS AM	PS
		DATE	TAP SE Course	Fine		Volts	DUTPUT	HOUR METER		COMMEN	NTS
"As F	ound"	9-5-07	С	3		5	5	4424916			
"As L	eft"	9-5-07	С	3		3.2	3.2	4424916			
			STRUCT	TURE	TO SC	IL POTE	NTIAL MEAS	UREMENT	S		
ΙĐ	STRU	JCTURE	CONTACT PO	DINT	REFE	RENCE CE	LL LOCATOION	ON	Instant off	100MV PO	LARIZATION CHANGE
D1	Į.	JST	FILL			NEXT T	O FILL	-1.222			
D 2	ι	JST	FILL				· · · · · · · · · · · · · · · · · · ·	-1.222			
OIL	L	JST	FILL		:	E		-1.222			
			·						 		
		· · · · · · · · · · · · · · · · · · ·									
							· · · · · · · · · · · · · · · · · · ·				
		<u>_</u>	·							<u> </u>	
							REQUIREMENT Has this CP test I		1 consistent	with provious	CD system
		<u> </u>	ecords been revi				ests? yes		J COMBISTEM		or system
if test p	rocedures	nave changed	I since last test p	lease e	xpiain.						
·											
		· · · ·				<u> </u>					
Have p	otential me	asurements b	een made at all t	anks ar	nd piping	including a	ny buried flex-co	nnectors? Yes			······································
CON	IPLETE	IF ANY RE	PAIRS OR N	IODIF	ICATI	ONS TO	THE CP SYST	TEM ARE M	ADE OR	ARE NEC	ESSARY
Comple	ete if any i	epairs or mo	difications to th	e catho	dic pro	tection sys	tem are made o	r are necessa	ry.		· · · · · · · · · · · · · · · · · · ·
☐ Ad	ditional an	odes for an im	pressed current	system	(attach	corrosion ex	perts design)	,	,		
☐ Re											
☐ Anode header cables repaired and/or replaced (explain below)											
☐ lm	pressed cu	rrent protecte	d tanks/piping no	t electri	cally co	ntinuous (ex	plain)				
Remark	s/Other:					•		•			
	, '''		· · · · · · · · · · · · · · · · · · ·								
					•						
											

	GALVANIC (SACRIFICIAL) CP TEST RESULTS REPORT PAGE							
	STRUCTURE TO SOIL POTENTIAL MEASUREMENTS							
ID	STRUCTURE	CONTACT POINT	REFERENCE CELL LOCATION	mV	COMMENTS			
1	PIPING	PIPE	NEXT TO PIPE	-0.900				
2	PIPING	PIPE	NEXT TO PIPE	-0.900				
3	PIPING	PIPE	NEXT TO PIPE	-0.900				
 	<u></u>	CP TEST	STATION REQUIREMENTS	<u> </u>				
Have pr	evious CP system test rec	cords been reviewed? Yes	Has this CP test been per tests? Yes	formed consister	nt with previous CP system			
If test pr	ocedures have changed s	since last test please explain	:					

Have po	tential measurements bee	en made at all tanks and pip	ing including any buried flex-connectors	? N/A				
	Have potential measurements been made at all tanks and piping including any buried flex-connectors? N/A COMPLETE IF ANY REPAIRS OR MODIFICATIONS TO THE CP SYSTEM ARE MADE OR ARE NECESSARY							
								
	Describe any repairs or modifications to the cathodic protection system that are made or are necessary.							
	Jeff Pike							
				,				
	<u> </u>			*				
				.				

March 2006



Pike's Unlimited 3258 Cascade Hwy NE Silverton, OR 97381

503- 873-8070 Fax: 503-873-4139 Cell: 503-3029144 Email:pike'sunlimited@yahoo.com

Tax Registration #: BIN 123627-5

an To:

FOSS MARITIME

F.D. BOX 83018

Portland ,Or 27283-8018

Invoice

Invoice No:

- 11

Date:

7/13/2006

Terms:

Net 10 7/23/2006

Due Date: Order No:

Territory: Sales Person:

PO#523570

Ship To:

Site adness, tested 9030 NW St. Helens Road (97231) Pordand,Or

Ship Dace Ship Via Tracking No FOB	5/23/2006	<shipvia></shipvia>		<tracking number=""></tracking>	<shipping_fo< th=""><th>262</th></shipping_fo<>	26 2
	Ship Date	Ship Via	٠.	Tracking No	FOB	.,

Code: Description	Qty/Hours		. Ander
Line Complance Test	3.00	\$175,00	
Line Leak Detector Test	2.00	\$50.00	\$100,00
ATG 3ed Party Certification	1.00	\$100.00	\$100.00
DEQ Inspection review	1.00	\$350.00	\$350.00
as builts and op check.	1.50	\$75,00	\$112.50
netall galvinic system piping	1.00	\$900.00	\$900.00
DEQ NO show	1.00	\$25,00	\$25.00
SSN # Deff Pike	1.00	\$0,00	\$0.00

We appreciate your business.

 Subtotal
 \$2,112.50

 Tax (0,00%)
 \$0.00

 Shipping
 \$0.00

 Total
 \$2,112.50

 Deposit
 \$0.00

 Balance Due
 \$2,112.50

Indicates non-taxable item

PIKE'S UNLIMITED, LLC 3258 Cascade Hwy NE Silverton, OR 97381. Office (503) 873-8070, Cell (503) 302-9144 www.pikesunlimited@yahoo.com

FAX NO. :503 873 8070

Tank Monitor Console-Performed Yearly Make: INCON TS 1001 Serial #: 55789 DEQ # 25892

Work Performed	N/A	Pass	Fail
1. Run system diagnostic check		x	!
2. Print and verify setup values and programmable info		x	
3. verify battery back-up		X	
4. Verify monitor inventory levels and tank stick readings		x	
5. Test remote communications	x		
6. Test external alarm for correct operation		X	
7. Tank test - Date & Time	X		

In Tank Probes - Performed Yearly

Worked Performed	Pass	Fail
1. Run probe diagnostic check	x	
2. Inspect sensor cables and connections	x	
Inspect probe floats and probe for any residue build-up	X	

Sensors - Performed Yearty

Work Performed		Pass	Fail
Run sensor diagnostic		X	
2. Inspect sensor cables and c	onnections	X	
3. Test sensor float switch for	proper alarm response	X	
4. Clean and inspect		X	

Customer: FOSS Maritime

Site Address: 9030 NW ST Helens RD Portland OR 97321

Technician: Jeffery Pike _____ Date 5-10-:2006

Clint: FOSS Maritime

Site Address: 9030 NW ST Helens RD Portland OR 97231

Date: 5-10-2006

Monitoring console		Pass	Fail	Comments
Check and print	T1 Diesel	X		Stick with in limits
Status of all tanks				To TLS slopes and gage.
Attach to report.	T2 Diesel	X		
	T3 Lube Oil	X		- -
				-
Check and print Sensor status. Attach to report.				12 months of tightness test all passed
	Notes	Yes	No	Comments
Clean sumps Water/fuel	Little dirt. No liquid in sumps	X		NO ACTIVE ALARMS.
Visual inspect Exposed piping	No stress noted on piping.	X		SYSTEM OK
Emergency shut off.	Plane site/ legal height.	х		
Check Paper in Console	Additional replacement rolls on site	X		
Monitoring cabinet Securely mounted		х		

Repairs recommend: NONE

Repairs Performed: NONE

PIKE'S UNLIMITED, LLC.

Technician: Jeff Pike

DATA CHART FOR USE WITHG PETROTITE LINE TESTER

Station Number:

Location: 9030 NW ST Helens Rd 97231

Owner: FOSS Maritime

Operator: Same

Reason for Test: Annual Compliance Test

Test requested by: Linda Brown Special Instructions: None

Testing Company: PIKE'S UNLIMITED, LLC.

Is a tank test to be

Made with this line test

YES NO(X)

Technician: Jeff Pike

Make and Type of

Pump or Dispenser (Suction/Submersible)

Weather: clear

Temperature in Tanks 57*F

*C Surface: Concrete. Burial Depth: 3'

IDENTIFY	Time AM PM	Log of test procedures, Ambient temperature, Weather, ETC Plastic line test Procedures are as	Pressure PSI or kPa		Volume Reading ML			Remarks Size, Length, All flexes and
EACH LINE AS TESTED DIESEL (1) AEFG								
			Before	After	Before	After	Net Change	piping size and Accounted.
	10:15	Follows: Pressurize Line to 75 PSI Monitor	65 start		.0786 Start			
	10:30	For 30 MIN. Adjusting Back to 75 After 1 st	65	65	.0786	.0786	.0000	
	10:45	15 MIN. Drop to 60 record into scale	65	65	.0786	.0786	.0000	
	11:00	Level. Monitor PSI for Min 1 Hr. Adjusting	65	65	.0786	.0786	.0000	
	11:15	Back to 60 Every 15 MIN and recording	65	65	.0786	.0786	.0000	
		Amt. Added. Calculate Leak by Determining						
		Bleed back and net Change			.0010	.1143	.1133	Bleed Back
							.0000	Net change

IDENTIFY	Time AM PM	Log of test procedures, Ambient temperature, Weather, ETC Same Procedures As listed	Pressure	;	Volume			Remarks
EACH LINE AS TESTED			PSI or kPa		Reading			Piping run 60° plus.
DIESEL (middle)			Before	After	Before	After	Net Change	
AEFH	11:15		60 start		.0906			
	11:30		60	60	.0906	.0906	,0000	
	11:45		60	60	.0906	.0906	.0000	
	12:00		60	60	.0906	.0906	.0000	
	12:15		60	60	.0906	.0906	.0000	
	-			 	.0010	.1210	.1200	BLEED BACK
	i i						.0000	NET CHANGE
LUBE OIL AEGN	12:15		60 Start		.0156			
	12:30		60	60	.0156	.0156	,0000	4
	12:45		60	0	.0156	.0156	.0000	
	1:00		60	60	.0156	.0156	.0000	-
	1:15		60	60	.0156	.0156	.0000	
					.0010	.1340	,1330	Bleed Back
							.0000	Net change
TEST RESULTS	Line ID	PASS / FAIL	Net Volume Change Per Hour				DATE TESTED	
	DIESEL		.0000				5-10-2006	
	DIESEL LUBE O		.0000				5-10-2006 5-10-2006	

Mechanical leak Detectors Test Results

Tech, Jeff Pike DEQ Certification # 25 892 DATE:-5-10-2006 SITE: FOSS Maritime

ADRESS: 9030 NW ST Helens Rd, Portland, Or 97231

PRODUCT:

TYPE OF LEAK

DECTOR:

VMI 99-LD2000/R

TYPE OF PRODUCT

LINE: 3GPH TEST: **ENVIRON** PASSED: XX

DIESEL

FAILED:

REPLACED LEAK

DETECTOR:

YES:

IF REPLACED: 3 GPH

IF YES TYPE OF NEW LEAK DECTECTOR:

PASSED:

FAILED:

PRODUCT:

3GPH TEST:

TYPE OF LEAK

DECTOR:

<u>VMI 99-LD2000/R</u>

TYPE OF PRODUCT

ENVIRON

DIESEL

YES:

LUBE OIL

<u> PASSED: XX</u>

FAILED:

REPLACED LEAK

DETECTOR:

IF REPLACED: 3 GPH

IF YES TYPE OF NEW

LEAK DECTECTOR:

SSN#

PRODUCT:

TYPE OF LEAK

DECTOR:

TYPE OF PRODUCT

LINE:

3GPH TEST:

ENVIRON

PASSED: no test

PASSED:

FAILED:

FAILED:

REPLACED LEAK

DETECTOR:

YES:

NO:X

IF REPLACED:

IF YES TYPE OF NEW

PASSED:

FAILED:

LEAK DECTECTOR:

PRODUCT:

TYPE OF LEAK DETECTOR:

TPYE OF PRODUCT

3 GPH TEST:

PASSED:

FAILED:

REPLACED LEAK

DETECTOR:

YES: PASSED:

NO: FAILED:

IF REPLACED: IF YES TYPE OF NEW

LEAK DECTECTOR:

SSN#



Department of Environmental Quality

811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

February 6, 2006

Jeffery G. Pike 3258 Cascade liwy NE Silverton OR 97381

RE: UST Supervisor License

You are licensed by the State'of Oregon to supervise regulated underground storage tank services while employed by a licensed UST Service Provider. Your license(s) to supervise specific regulated activities are valid until the expiration date(s) below.

Licensed Services	Lic Nbr	Expiration
Cathodic Protection	26449	05/18/2007
Tank Tightness Testing	25892	03/30/2007

Your license(a) are issued under the provisions of OAR 340-160-005 through 340-160-150 and OAR 340-162-005 through 340-162-150.

The identification card below serves as proof of current licensing and must be available for inspection when performing UST Supervisor activities.

If you have questions concerning your license please contact Steve Paiko at (503) 229-6652 or toll free (in Oregon) (800) 452-4011.

Sincerely,

Wendy Wiles

UST Program Manager UST Compliance Section

> Jeffery G. Pike 3258 Cascade Hwy NE Silverton OR 397381_ LICENSED SERVICES

LIC # EXPIRES

Cathodic Protection Tank Tightness Testing 25892 03/30/2007

26449 05/18/2007

Supervisor Signature

UST SERVICE PROVIDER LICENSE

This License is Issued by the Oregon Department of Environmental Quality to:

Pike's Unlimited 3258 Cascade Hwy NE Silverton OR 97381

You Are Licensed to Offer the Following Underground Storage Tank (UST) Services:

License Type

License Number

Issued

Expires

UST Services

25893

04/12/2006

04/27/2007

A Licensed Underground Storage Tank Supervisor Must be Present at a Site to Perform These Services.



Authorized by:



Wendy Wiles UST Program Manager



A Copy of this License Shall be Available For Inspection at All Sites Involving UST Work.

(Jakani: 0)-28-0:

Confidential Business Information



MID-CONTINENT CASUALTY COMPANY P. O. Box 1409 Tuise, Okiahoma 74101

POLICY DECLARATION

	•		Policy No.	04-QL	-000830848
Named Insured	and Mailing Addre	25	Agent Name	and Mailing Addre	988
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COMMERCIA	L GENERAL LIABI	LITY COVERAGE F	PART		·
OWNERS AN	D CONTRACTORS	B PROTECTIVE LIA	BILITY COVERAG	BE PART	*
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CG0300(01/96) RL0017(11/96)	ML1439(04/97) C-33290(10/05)	a part of this police ML1344(03/97) CG2196(03/05) CG2153(01/96) ML1217(04/01)	MI9046(05/01) CQ2147(07/96)	iL0279(01/08) CQ0067(03/05) ML1001(05/99)	iL0021(07/02) CQ0001(12/04) ML1021(08/01)
*Omits applicable F	orms and Endorseme	nts if shown in specific	Coverage Part/Cov	erage Form Declarati	ons.
Countersigned at: Date:	ARLINGTON 01/25/2006	TX			
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ML 14 87 (01 97)

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COMMERCIAL GENERAL LIABILITY COVERAGE PART

DECLARATION

Policy No.

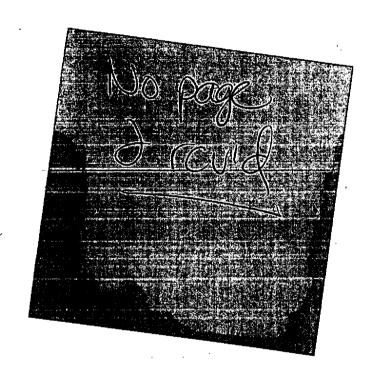
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Effective Date: 01/20/2008 ** 12:01 A.M. Standard Time

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ML 16 07 (09 Q1)

These declarations are part of the policy declarations containing the name of the insured and the policy period.





Field Citation No. FC- 0190 NON No.

Department of Environmental Quality Underground Storage Tank Program

Field Citation For UST Violations

This section for DEQ use only

Quality	FOR US I VI	Diations		l <u> </u>		
				Page 1 c	of 3	
D	EQ Information	UST	Facility Infor	mation		
Inspection Date:	September 25, 2006	Facility ID#:	7374			
Inspector:	GREGORY TORAN	Facility Name:	FOSS MARITIME			
DEQ Office:	2020 SW 4 TH AVE SUITE 400	Facility Address:	9030 NW S	AINT HELENS	RD	
	PORTLAND OREGON 97201		PORTLAND,	OR 97231-11	27	
Phone #:	503-229-5496	County:	Mult			
Oregon DEQ inspected the facility listed above and identified the UST violations listed on page 3 of this Field Citation.						
Field Citation Issue	ed: 🔲 In Person 🔲 By Mail	☐ Both	Date Issued	Sep. 2:	5, 06	
Facility Representative Pres	sent During Inspection:		☐ Permittee	Owner 🗆	Other	
Signature of Facility Repres	sentative Present During Inspection*	ė.		Date:		
*This signature indicates receip	ot of the Field Citation at the time of inspection, and is		sed penalty.	:		
Name of Permittee or Own		-	H + P + P d sharanse in	romen for the first specific and the first specific speci		
Mailing Address: 9	030 NW Saint Helens Rd Portland, O	R 97231-1127	# 7 TO -	-,		
Field Citation Penal	Ity - See Page 3 for detailed listing of	each violation.	\$	150	.00	
	nittee must select Option 1 or Opt to DEQ by the following date:	ion 2 below and ret Business Office	urn a signed c	opy of this fo —	orm	
	——————————————————————————————————————	SW Sixth Avenue				
		and, Oregon 97204				
Check one option			•			
listed field ci Option 2 - I o that my file v	acknowledge that the listed violat itation penalty. do not want to participate in the e will be referred to the Department cement action.	xpedited enforceme	ent process an	d understan	ď	
Name: Toss	Maritime Co.	,	- 0	Owner,/ Perm	nittee	
Signature:		1755 Uniti	mula Date:	9/28/1	760	
	Import	ant	:	Ja.	4 2	
	Read pages 2 and 3 for more info a detailed listing of violations Q-HQ, MITCH SCHEEL DEQ-HQ	ormation about you and compliance req	uirements.	_		
White/Original: DEO Inspe	ector Pink: Facility Representative	Yellow: DEO Business	Office 6	Green: Permanent	Conv	

00014356

White/Original: DEQ Inspector

Department of Environmental Quality (DEO) Underground Storage Tank Program Facility Representative initials: 34 3 3 **UST FIELD CITATION** DATE ISSUED: SEPTEMBER 25, 2006 FIELD CITATION No.: FC-0190 FACILITY ID: 7374 Page 3 of 3 Violation #1: Failure to protect from corrosion any part (piping) of an UST system that routinely contains a regulated substance. Corrective Action: Not required, work is complete, documentation has been submitted and is on file. Continue to test cathodic protection. Rule Citation: 340-150-0320(3) Penalty Amount: \$ \$100.00 Correct Violation by: October 25, 2006 Date Violation Corrected Violation #2: Failure to have automatic Line Leak Detector on pressure line for new oil tank. Corrective Action: As previously discussed, provide notice to DEO and install approved Line Leak Detector for new oil system. Rule Citation: 340-150-0410(2) Correct Violation by: Date Violation Corrected: Penalty Amount: \$ \$50.00 October 25, 2006 Violation #3: Corrective Action: Date Violation Corrected Rule Citation: Penalty Amount: \$ 00.00 Correct Violation by: Violation #4: Corrective Action: Date Violation Corrected Rule Citation: Penalty Amount: \$ 00.00 Correct Violation by: Violation #5: Corrective Action: Date Violation Corrected Rule Citation: Correct Violation by: Penalty Amount: \$ 00.00 Violation #6: Corrective Action: Date Violation Corrected Rule Citation: Penalty Amount: \$ 00.00 Correct Violation by: Total Penalty Amount (This Page): \$ \$150,00 . Total Penalty Amount (All Pages): \$ \$150.00 YOU MUST CORRECT THE VIOLATIONS AS REQUIRED. ENTER THE DATES CORRECTED, SIGN THE STATEMENT BELOW AND RETURN THIS FORM TO THE DEQ INSPECTOR LISTED ON PAGE 1 ON OR BEFORE: Retain a copy of this form and all documentation of corrective actions for your records. hereby certify that the UST violations noted above have been corrected Permittee/Owner Signature

Yellow: DEQ Business Office

Green: Permanent Copy

Pink: Facility Representative

LINE LEAK DETECTION

THIS SECTION SHOULD CONTAIN, BUT IS NOT LIMITED TO THE FOLLOWING:

- DESCRIPTION OF THE METHOD USED, DATE INSTALLED OR INITIATED, AND ANY OTHER PERTINENT DATA (INSTALLER, PERMITS, ETC.)
- MANUAL, INSTRUCTIONS OR METHOD OUTLINE
- THIRD PARTY CERTIFICATION
- O & M SCHEDULE AND REPORTS FOR METHOD **USED**
- DAILY AND/OR MONTHLY LOG AND REPORTS
- TESTING
- OTHER INFORMATION AS NECESSARY

. Suction Tested every 3 years systems with foot value oil took) DUCE

a safe suction line will Flow back to tank has check value at TOP of system with no foot value allows Fiel to Flow to tank IF Pipe has a Wheek a pressurized product lines

All pressurized systems must have a mechanical or electronic line leak detector. Must be 3rd party Certi Ried

USE - rapor-less 99 LD 2000 mechanical leak detectors replacement

Mech. Petectors operate below 2 psi (test mode)

Must betested Annually applications must detect 2-20 must detect 3GPH at 10 PSI

A. UNDERGROUND PIPING

- A minimum of the most current 12 consecutive months of release detection records must be maintained.
- Any leak test results or other observations or results indicating the possibility of a
 release must be reported within 24 hours as a suspected release (OAR 340-150-0500)
 and investigation must immediately begin in accordance with 340-150-0510.
- In lieu of conducting annual line tightness tests on either pressurized or suction piping, monthly monitoring may be conducted by one of the applicable release detection methods described in OAR 340-150-0450 through 340-150-0470, if the method is designed to detect a release from any portion of the underground piping that routinely contains a regulated substance.

1. Pressurized Piping

For underground piping that conveys regulated substances under pressure:

- The piping must be equipped with an automatic line leak detector that detects a leak by restricting or shutting off the flow of regulated substances through underground piping or triggering an audible or visual alarm. Interstitial monitoring sensor systems or stand-alone "sump" sensors are not an acceptable alternative for a line leak detector.
- The line leak detector must be approved by a national organization (e.g., the National Work Group on Leak Detection).
- The line leak detector must be capable of detecting a leak of three gallons per hour at ten pounds per square inch line pressure within one hour.
- An annual test of the operation of the line leak detector must be conducted in accordance with the manufacturer's requirements.
- An annual line tightness test must be conducted that can detect a 0.1 gallon per hour leak rate at one and one-half times the operating pressure. Interstitial monitoring sensors may replace the annual line tightness test if:
 - The equipment is designed, constructed and installed to monitor all portions of the underground piping that routinely contains a regulated substance.
 - The requirements for interstitial monitoring (OAR 340-150-0465) are met.

2. Suction Piping

- For underground piping that carries a regulated substance under suction (i.e., piping that operates at less than atmospheric pressure):
 - Check the piping for the presence of air in the pipeline in accordance with the National Fire Protection Association standard NFPA, 329 (1999) "Recommended Practices for Handling Releases of Flammable and Combustible Liquids and Gases" Chapter 5, Release Detection of Tanks and Piping, Subsection 5-2.3.2(b), if any of the following indicator conditions are observed by any person dispensing a regulated substance:
 - If there are indications of air in the pipeline or other unusual operating conditions are observed (refer to NFPA 329 Subsection 5-2.3.2(a) for specific indicators), the pipeline check valve should be inspected to determine if it is seated tightly. The check valve must be repaired, replaced or sealed off as appropriate depending on the results of the inspection.

- The requirements of OAR 340-150-0350 through 340-150-0354 must be met for any repair, modification or replacement actions taken to correct a problem.
- A line tightness test must be conducted at least every three years that can detect a 0.1 gallon per hour leak rate at one and one-half times the operating pressure.
- Release detection is not required for suction piping that is designed and constructed to meet the following standards:
 - The below-grade underground piping operates at less than atmospheric pressure.
 - The below-grade underground piping is sloped so that the contents of the pipe will drain back into the UST if the suction is released.
 - Only one check valve is present in each suction line.
 - The check valve is located directly below and as close as practical to the suction pump.
 - A method is provided that allows DEQ to readily determine compliance.

MONITORING SCHEDULE OUTLINE

USTs and piping have different release detection monitoring schedules depending on the type of method in use. The following table shows which methods require daily monitoring and which must be monitored on a monthly basis. Note that Oregon has requirements for daily monitoring for some methods and that not all methods are appropriate for piping. "N/A" means the method is not applicable and cannot be used.

Release Detection Method))Tank	Pressurized Piping	Suction Piping
Inventory Control	Monthly 3.34	N/A	N/ATTENANT
Manual Tank Gauging	Monthly	N/A	N/A
Statistical Inventory Reconciliation	Monthly	N/A	N/A SEFERICA
Automatic Tank Gauging	Monthly 💸 🚉	Daily	Monthly # 25
Vapor Monitoring	Daily Fig. 30	Daily	Monthly
Groundwater Monitoring	Dailys = 2500 s	Daily	Monthly
Interstitial Monitoring	*Monthly 🐔 💆	Daily	Monthly

Issue Date: August 23, 1999

Vaporless Manufacturing

Vaporless 98LD-2000, 99LD-2000, 99LD-2200, LD-2200 Scout (for Rigid and Flexible Pipelines)

AUTOMATIC MECHANICAL LINE LEAK DETECTOR

Certification:

Leak rate of 3.0 gph with $P_D = 100\%$ and $P_{FA} = 0\%$.

Leak Threshold:

2.5 gph. A pipeline system should not be declared tight if the test result

indicates a loss that equals or exceeds this threshold.

Applicability:

Gasoline, diesel, aviation fuel.

Other liquids may be tested after consultation with the manufacturer.

Specification:

System tests pressurized flexible, fiberglass, and steel pipelines.

Tests are conducted at operating pressure.

Pipeline Capacity:

Maximum of 172 gallons for rigid pipelines.

Maximum of 39.5 gallons for flexible pipelines.

Waiting Time:

None between dispensing and testing.

None between delivery and testing.

Test Period:

Response time is less than 1 minute without a leak and 1 to 8 minutes with

a leak.

System Features:

Permanent installation on pipeline.

Automatic testing of pipeline.

Preset threshold.

Single test to determine if pipeline is leaking. Restricted flow to dispenser if leak is declared.

Calibration:

System must be checked annually and, if necessary, calibrated in

accordance with manufacturer's instructions.

Vaporless Manufacturing 8700 East Long Mesa Drive Prescott Valley, AZ 86314

Tel: (520) 775-0185

Evaluator: Ken Wilcox Associates

Tel: (816) 443-2494

Dates of Evaluation: 05/20/98, 11/10/98

3rd Party Certification

Revision Date: July 31, 2001

Training and Services Corp.

AcuRite

(for Fiberglass, Steel and Flexible Pipelines)

LINE TIGHTNESS TEST METHOD

Certification:

Leak rate of 0.1 gph with $P_D = 100\%$ and $P_{FA} = 0\%$.

Leak Threshold:

0.01 gph. A pipeline system should not be declared tight if the test result

indicates a loss that equals or exceeds this threshold.

Applicability:

Gasoline, diesel, aviation fuel, fuel oil #4.

Specification:

System tests fiberglass, steel and flexible pipelines. Tests are conducted at 150% operating pressure.

Mechanical line leak detector must be removed from pipeline for duration

of test.

Pipeline Capacity: Maximum of 150 gallons.

Waiting Time:

Minimum of 6 hours between delivery and testing.

Minimum of 30 minutes between dispensing and testing.

Test Period:

Minimum of 30 minutes.

Test data are acquired and recorded manually.

Manual calculations are performed by the operator on site.

Calibration:

System must be checked annually and, if necessary, calibrated in

accordance with

manufacturer's instructions.

Comments:

Operating instructions include specific procedures for flexible pipelines.

Formerly manufactured by Hasstech

Training and Services Corp. 501 Bains St., Suite 113 Brookshire, TX 77423 Tel: (281) 934-3839

Evaluator: Lamar University

Tel: (409) 880-8788

Date of Evaluation: 03/25/91

3rd PARTY CERTIFICATION

I. SUSPECTED RELEASES

A. GENERAL REQUIREMENTS

1. Reporting

- Notification must be given within 24 hours and the procedures in OAR 340-150-0510 followed for any of the following conditions:
 - The discovery by any means of fuel at the UST facility or in the surrounding off-site area such as the presence of free product (i.e., fuel) or vapors in soils, basements, sewer and utility lines, and nearby surface water or release into a secondary containment area. Additionally, identify and mitigate any fire, explosion and vapor hazards at the UST facility in accordance with OAR 340-122-0220(3).
 - Unusual operating conditions such as the erratic behavior of dispensing equipment, the sudden loss of product from the UST system, differences or widely fluctuating water levels or an unexplained presence of water in the tank unless system equipment is immediately tested and found to be defective, but not leaking and is immediately repaired or replaced.
 - Monitoring results or alarms from any release detection method that indicates a release may have occurred, unless the monitoring device is found to be defective and is immediately repaired, recalibrated or replaced, and subsequent monitoring events as required by the specific release detection method does not confirm the initial result. The specific release detection requirements are found in OAR 340-150-0420(8), 340-150-0430(10), 340-150-0435(6), 340-150-0440(5), 340-150-0445(3), 340-150-0450(1) (d), 340-150-0455(5), 340-150-0460(4), 340-150-0465(6) and 340-150-0470(3).
- A confirmation number will be provided upon notice of a suspected release that serves as proof that timely notice was received. This confirmation number should be referenced when reporting the results of actions taken to comply with OAR 340-150-0510.

2. Investigation and Confirmation

- An investigation must be immediately initiated to investigate and confirm a suspected release of fuel. This investigation must be completed within seven days or as otherwise approved.
- Upon expiration of the seven day period (or other approved period), submit:
 - A written description of the system test conducted that determined a release did not occur, including any test results.
 - A written plan of action to complete the suspected release investigation system test or site assessment. Any plan of action must include a firm schedule for completion.

B. SYSTEM TESTS

Tightness testing must be conducted to determine whether a leak exists in any portion of the UST that routinely contains fuel (OAR 340-150-0445), or the underground piping (OAR 340-150-0410), or both. The cause of a release into any secondary containment units must be investigated, including underground piping, turbine Alarm
History
to Be
kept
Former

- sumps, transition sumps and dispenser pans, by conducting tests in accordance with manufacturer requirements or as directed by the Department. All fuel or fuel/water mixture must be removed from the containment system and properly disposed of in accordance with all state, federal and local requirements.
- Further investigation is not required if the system test results do not indicate that a release has occurred and if the suspected release was not reported due to any of the conditions described in OAR 340-150-0500(1)(a) (e.g., free product or vapors in soils or basements), unless otherwise directed by the Department.
- If the system test results indicate that a release exists, the UST system must be repaired, replaced or modified and corrective action began.

C. SITE ASSESSMENT

- If the test results for the UST, piping or secondary containment units do not indicate that a release exists, but the suspected release was reported due to any of the conditions described in OAR 340-150-0500(1)(a) or if directed by the Department, the permittee must conduct a site assessment for contaminated soil or groundwater. The presence of a release must be measured for where contamination is most likely to be present based on all information available.
- In selecting sample types, sample locations, and measurement methods, consider the nature of the stored fuel, the type of initial alarm or cause for suspicion, the type of backfill, the depth of groundwater, and other factors appropriate for identifying the presence and source of the release. The requirements for sample collection, analytical tests and methods contained in the UST cleanup rules (OAR 340-122-0205 through 340-122-0360) must be used as appropriate. The Department may require that a sampling plan be submitted for approval before conducting any sampling on a case-by-case basis.
- If the site assessment results do not indicate that a release has occurred, further investigation is not required, unless specifically directed by the Department.
- If the site assessment results indicate that a release has occurred, corrective action must begin.
- If the suspected release investigation confirms that a release has occurred, the confirmed release must be reported within 24 hours and the following release reporting, site investigation and corrective action requirements must begin:
 - For petroleum USTs OAR 340-122-0205 through 340-122-0360.
 - For USTs containing non-petroleum regulated substances OAR 340-122-0010 through 340-122-0115, except that releases must be reported in accordance with the requirements of OAR Chapter 340, Division 142.
- Additional actions not specifically listed in this rule may be required on a case-bycase basis to address actual or potential threats to human health or the environment.

D. OFF-SITE IMPACTS

• The procedures in OAR 340-150-0510 must be followed to determine if a UST system is the source of off-site impacts. These impacts include the discovery of fuel (such as the presence of free product or vapors in soils, basements, sewer and utility lines, and nearby surface and drinking waters) that has been observed.

INCIDENT REPORTS

Two types of incident report forms should be kept in this section, one for non-reportable spills or suspect releases, and one for reportable spills or suspect releases. Both forms should contain, but not limited to:

- Date and time
- Description of incident
- Persons involved
- Actions taken
- (If reportable, DEQ number)
- Resolution or Confirmation

These forms could assist you with future problems, and could be of significant value.

EMERGENCY RESPONSE PLAN

Your emergency response plan should be tailored to the needs of your specific site and circumstances.

(7) Emergency Response Information. In addition to the requirements of Sections (1) through (6) of this rule, an owner and permittee must provide information about emergency response procedures, including, but not limited to, procedures for overfill protection during delivery of regulated substances, operation of emergency shut off system and alarm response, release reporting and any site specific emergency procedures. The information must include any emergency response requirements made necessary by site specific human health and safety issues or the presence of environmentally sensitive areas, such as nearby streams, wetlands or potential conduits for spreading contamination. The emergency response information must be provided by:

(a) Written instructions that are provided to any person who dispenses a regulated substance at the UST facility.

(b) Signage posted in prominent areas of the UST facility that is easily visible to any person dispensing a regulated substance.

(c) A combination of both Subsections (a) and (b) of this section.

<u>Signage</u>

- Emergency Shut-off
- Overfill alarm horn
- No Smoking
- Spill containment equipment
- Other as needed

Lists

- Immediate actions needed at site
- Who to call

Proceedures

- Written instructions given to all affected employees
- Written plan of action for both reportable and nonreportable spills or releases

Routine O & M schedule for UST facilities

- 1. Check spill containment on fill risers at least weekly, more often in extremely wet weather. Also check after each fuel delivery. Empty any debris or contaminated liquid and dispose of it in the proper manner. If there is only fuel in the containment, you can drain it into the tank without having to worry about contamination.
- 2. Check turbine and dispenser sumps at least monthly, more often in extremely wet weather or if vapors are detected. Empty any debris or contaminated liquid and dispose of it in the proper manner. This is part of your monthly line monitoring. If you have sump sensors, record any alarms for the month or operating and no alarms for the month.
- 3. Check impact valves when changing filters ar at least every six months to make sure they are operating.
- 4. Perform a monthly inventory of your spill containment kit and replace any pads, booms, etc. that may have been used.
- 5. Make sure NO Smoking and Emergency Shut-off signs are in place and that nothing has been placed over or in front of them so they can be easily seen.
- 6. Check incident logs daily and make sure any spill has been cleaned up properly and completely, or that the proper notification was made.
- 7. Record monthly tank and line leak detection. Check tank tests weekly to make sure you have a pass for each tank, at the proper level, if you are using Automatic Tank Guaging.
- 8. List other necessary items for your specific site.

Willhelm Wodl



Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

February 26, 2007

LINDA BROWN FOSS MARITIME COMPANY 9030 NW SAINT HELENS RD PORTLAND, OR 97231-1127

RE: UST Compliance Inspection

Facility ID No.: 7374 FOSS MARITIME

9030 NW SAINT HELENS RD

PORTLAND, OREGON

On September 25, 2006, the Department of Environmental Quality (DEQ) completed an Operation and Maintenance (O&M) inspection at the above referenced facility. The DEQ has completed a review of the inspector's observations and the information collected during the inspection. Based on the findings of this inspection, the DEQ has determined that the regulated USTs at this facility are **in compliance** with State of Oregon UST requirements.

The DEQ appreciates your efforts to operate and maintain your UST system in compliance with Oregon environmental law. This facility is subject to future inspections. Please remember to conduct service and maintenance inspections and periodic testing at the required intervals and to implement and/or maintain adequate record keeping.

Some general recommendations for maintaining UST compliance are listed below.

Schedule and complete annual or tri-annual UST system testing as necessary. You may be asked for these records on a yearly basis. Annual tests must be completed every 12 months on or before the anniversary date of the tank install or the previous test.

Monitor tanks and piping for leaks and keep twelve months of monthly and or daily records as necessary for your specific systems.

Maintain financial responsibility coverage for pollution liability.

Keep spill prevention devices emptied and clean.

Monitor fuel delivery records for signs of overfilling to capacity and make corrections to defective overfill prevention equipment, or improper delivery procedures as necessary.

If turbine containments are taking on water and exposing unprotected steel product piping connections to corrosive conditions, take action to prevent this by any means, including repairing the leaky sump and sealing off the source of the water.

UST inspection results Facility ID: 7374 February 26, 2007

Report a suspected release to the DEQ within 24 hours and begin an investigation when tank or line tests confirm a failed system, when fuel alarms indicate a failed leak test, when fuel is found in secondary containments, or when liquid of any kind (dry or vacuum systems) is found in tank interstitial space, unless the monitoring equipment is found to be faulty and repaired or the alarm is determined to be false.

Contact your service provider for assistance with testing and alarm investigation.

Contact your service provider and begin an investigation if you suspect fuel loss, equipment is malfunctioning, leak detectors are triggering, or product lines are losing prime.

Report a confirmed release to the DEQ within 24 hours of confirming product loss into the subsurface in any amount.

You should become familiar with the UST compliance rules OAR Chapter 340, Division 150. Forms, rules, and guidance documents to assist you in being safe and staying in compliance are available on the DEQ UST section website. The web address is http://arcweb.sos.state.or.us/rules/OARs 300/OAR 340/340 150.html

I can be reached at 503-229-5496 to report a confirmed or suspected release or to answer any questions you may have.

Sincerely,

Gregory Toran

Environmental Specialist

(get:GET)





Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

April 19, 2006

STUART SANBORN FOSS MARITIME COMPANY 9030 NW SAINT HELENS RD PORTLAND OR 97231-1127

RE:

UST Compliance Inspection

Facility ID No.: 7374

The purpose of this letter is to inform you that the Oregon Department of Environmental Quality (DEQ) would like to schedule an underground storage tank (UST) inspection at your facility located at 9030 Nw Saint Helens Rd in Portland, Oregon.

A thorough inspection at your facility will be conducted to determine compliance with all state UST requirements. These requirements include release detection, spill and overfill prevention, corrosion protection, release detection, equipment operation, maintenance, recordkeeping, financial responsibility, and repair procedures. The inspection is not being conducted as technical assistance and items found not to be in compliance with UST rules will result in enforcement action against the permittee and tank owner.

Please have all testing, system design, repair, and leak detection records available for review. This includes records to show the type of tanks and piping installed, the previous twelve months of leak detection records for tanks and piping, all cathodic protection testing and inspection records, records to demonstrate cathodic protection design by an expert, tank and line pressure test records, testing and 3rd party performance records for any leak detection devices, records for tank monitor repairs or calibrations, records for tank or piping repairs, leak detector testing, lining inspections, and any other UST system records that you may have. It will also be necessary that you provide documentation to verify the overfill protection system as installed and overfill alarms as functional, or be prepared to demonstrate functionality during the inspection.

The inspection could take up to three hours to complete. Please call me to schedule the inspection at your facility. The guidance document "How to Prepare for an UST Compliance Inspection" has been enclosed to assist you in preparation for your inspection.

DEQ suggests that you hire a professional UST maintenance company to be there during the inspection providing sump access, verifying operation of overfill protection, testing sensors and tank monitors, pulling drop tubes, printing monitoring and test reports, or to answer specific technical questions regarding your systems.

You may also want to have your UST maintenance company inspect and review equipment and records and to verify compliance with UST rules, prior to the inspection date. As a reminder, the inspection is not being conducted as technical assistance and items found not to be in compliance with UST rules will result in enforcement action against the permittee and or the tank owner.

If you own more than one facility, and have received two or more letters as part of this mailing, I am open to inspecting up to three of your facilities in a single day. Please call me, I can be reached at 503-229-5496 to schedule the inspection and to answer any questions you may have.

Sincerely,

Gregory Toran

Environmental Specialist

Enclosure UST Guidance document

Zip 97231-1127 SOC Pending

Oregon Department of Environmental Quality Underground Storage Tank Program

UST Facility Compliance Inspection Report

Inspection D	ate	/2002	Inspector			Mod App	YN
				Valid Op	erating (Certificate	YN
	tion type by marking ap	ppropriate	e box	:			
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Part A:	Facility ar	nd Ow	vnor / On		ormati	on	
				Crator tim			
Enter correct n	ame and site location i			RMATION	· · ·		
ACILITY NAME		FACI	Lift Hirt	MUMITON	DEQ ID#	:	
SITE ADDRESS					<u> </u>		
Сіту							
COUNTY				· · · · · · · · · · · · · · · · · · ·	Co. #		·····
PHONE					1,		
							
Eugen medik - J -	wner / operator inform	u ation					
znier verijiea o			PERATOR	INFORMAT	TION		
	PERMITTEE		TANK (ERTY OW	NER
NAME							
ADDRESS							
CITY				• .			
STATE				-			
ZIP CODE	,						
TELEPHONE							
FAX			2	, # s * 1 ,			
EMAIL					 		
SITE CONTACT N	VAME						
SITE CONTACT F	PHONE		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
				<u>-</u>			
Dart A 1	. Signific	unt O	norations	l Complia	nce (S	O(C)	
Part A.1	. Signine		per autona	r Combus		00)	
Indicate SOC et	atus after inspection b	v circlina	annronriata ra	snonse			
	SOC with UST E						YN
Facility is in	SOC with Releas	e Detect	tion Require	ements (SOC)	RD)		Y N
·				.*			
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Part B: Underground Storage Tank Information

Enter tank numbers if different from I-6. Request documents to establish dates. Compare current information with database

Tank#	1	with database.	3	4	5	6
Permit#						
Product						
Volume, gal.						
Tank Type	_					
Tank Mfgr						
New/Existing						
Install Date	_		,			
Installer						
Tank C. P. Dute		III. Ramana and Al				
Tank Lining Date						
Temp Closure Date					•	
Piping Type		,			· · ·	
Piping Mfgr		,	- '			
Piping Install Date						
Piping Installer						

Part C: Facility Layout Diagram

ATTACH APPROPRIATE "AS BUILT" FACILITY PLANS

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Part D: Release Detection Information- § 40 CFR 280.41

Check one release detection meth								
	205 :=::							
Automatic Tank Gauging	280.43(d)	G.1				*************		
Interstitial Monitoring	280.43(g)	6.2						
SIR	280.43(h)	G.3		2/0000000000000000000000000000000000000			<u> </u>	
Inventory Control & TIT	280.43(a)	G.3						
Manual Tank Gauging	280.43(b)	G.4						
Manual Tank Gauging & TTT	280.43(b)	*****	7.					
Vapor Monitoring	280.43(e)	G.6	(4)					200000000000000000000000000000000000000
Groundwater Monitoring Other Methods	280.43(f)	G.5						
	280.43(h)					_		
None Required				<u> </u>			<u> </u>	(
	5 35.1	•	137.37	37.37	137.37	37.37	37.31	1 32 37
1 Tank has Valid Release			YN	YN	YN	Y N	YN	YN
Complete appropriate Section o	j Fari G prio	r to making a	etermina	uon				
Check the piping release detection	n memou(s) mu	uppy.						
Pressurized Piping Methods				c	1 20000 0000			100000000000000000000000000000000000000
Daily Interstitial (pipe)	280.44(c)	G.7						
Daily Interstitial (sump)	280.44(c)	G.7						
Automatic Line Leak Detector	280.44(a)	G.7						
Annual Line Tightness Test	280.44(b)	G.7				ļ.		
Daily Groundwater Monitoring	280.44(c)_	G.5						
Daily Vapor Monitoring	280.44(c)	G.6	ļ ''					
Other Daily Methods	280.44(c)							
Suction Piping Methods		***************************************	***************************************	<u>Samananan</u>	ł w w	80000000000000000000000000000000000000	4*********	
Interstitial Monitoring	280.44(c)	G.7						
Line Tightness Test (3yr)	280.44(b)	G.7		-				
Daily Groundwater Monitoring	280.44(c)	G.5		***************************************				
Daily Vapor Monitoring	280.44(c)	G.6						
None Needed (Safe Suction)	280.41(b)(2)	G.8		Andriaennohönskindö				
None needed/No underground								
		···	·	·	1		r	T 2
2 Piping has valid Release			YN	YN	YN	Y N	YN	YN
Complete PART G.7 prior to ma	king aeterminat	non						
Comments:								

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Part E: Spill Prevention - § 40 CFR 280.20(c)

						1000	
1	Spill device required.	YN	ΥN	YN	ΥN	YN	ΥN
2	> Fill pipe is fitted with spill prevention equipment.	K N	K N	XN	YN	YN	YN
3	⇒ Equipment prevents release during product transfer.	*X N	ΧN	Ϋ́N	YN	ΥN	ΥN
4	Release due to spills has occurred.	YX	Y X	Y A	YN	YN	YN
5	Releases reported as required.	Y AL	Y 🖟	YA	YN	YN	YN
		YN	YN	YN	YN	YN	YN

Comments:		
	5AIL Bockets	
	A SECTION OF THE SECT	R

Part F: Overfill Prevention -§ 40 CFR 280.20(c)

	and the second second second												
1	Overfill device required.	文 1	N	X	N	X	N	Y	N	Y	N	Y	N
2	Tank is equipped with Fill Pipe Device.	Ϋ́	N.	Y	Ж.	Y	×	Y	N	Y	N	Y	N
3	Tank is equipped with Vent Ball Float Valve.	X 1	N	X	N	Х	N	Y	N	Y	N	Y	N
4	Tank is equipped with High Level Alarm. (ATG)	K	N	X	N	X	N	·Y	N	Y	N	Y	N
5	Device stops delivery at 95% capacity or less.	X 1	N	(X	N	X	N	Y	N	Y	N	Y	N
6	Device restricts or warns at 90% capacity or less.	X _1	V	X	N	X	N	Y	N	Y	N	Y	N
7	Product transfer procedures performed as required.	·火1	7	X	N	X	N	Y	N	Y	N	Y	N
8	Release due to Overfill has occurred.	Y]	X	Y	×	Y	又	Y	N	Y	N	Y	N
9	Releases reported as required.	X 5	Ķ.	X	*	X	7	Y	N	Y	N	Y	N
	Provide temperature	YN	4	Y	N	Y	N	Y	N	Y	N	Y	N

Comments:		
	BALL Flout value	
	*	
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Part G.1: Automatic Tank Gauging § 40 CFR 280.43(d)

Complete Part G.1 if the UST system uses an Automatic Tank Gauge (ATG)

ATG Manufacturer:	INCON
ATG Model:	75-1001
ATG Probe Manufacturer:	
ATG Probe Model:	
ATG Install Date:	1998
ATG Installed by:	1998 PNE
ATG Maintained by:	MASCOL

1	Device has approved 3rd-Party evaluation.	XN	YN	YN	YN	YN	YN
2	Installation and O&M performed as per manufacturer.	ΧN	YN	YN	YN	YN	YN
- 3	Cak Test performed Monthly.	X N	YN	YN	YN	YN	YN
4	12 months of records.	X N	YN	YN	YN	ΥN	YN
5	Suspected releases reported as required.	Y M.	YN	YN	YN	YN	ΥN
)	UST ATG passed inspection	XN	YN	YN	YN	YN	YN

If the answer to any question is No, explain below. List all problems, even those corrected during inspection.

Comments:	
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	Land Barting Control of the Control
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Part G.2: UST Interstitial Monitoring- § 40 CFR 280.43(g)

Complete part G.2 if UST uses interstitial monitoring.

	Electronic and Manual Monitoring Systems							
1	Electronic monitoring method utilized.	Y	N	YN	YN	Y N	YN	YN
2	Manual monitoring method utilized.	Y	N	YN	YN	YN	YN	YN
3	○ Monthly monitoring performed. (See Part D)	Y	N	YN	YN	YN	YN	ΥN
4	O Monitoring devices are 3 rd -Party certified.	Y	N	YN	Y N	YN	YN	YN
5	Installation and O&M performed as per manufacturer.	Y	N	YN	YN	Y N	YN	YN
6	Can detect leak from any portion that contains product.	Y	N	YN	YN	YN	YN	YN
7	I year of monthly release detection records are available.	Y	N	YN	YN	YN	YN	YN
8	Suspected releases reported as required.	Y	N	YN	YN	ΥN	YN	YN
*	Passed Inspection Y/N	Y	N	ΥN	Y N	YN	YN	YN

Comments:			 -
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		The second	
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Part G.3: UST Inventory Control, Tightness Testing or SIR § 40 CFR 280.43(a), (c) and (h)

Complete PART G.3 if UST Release Detection method is inventory control, tightness testing or SIR.

1	☐ Readings are recorded each operating day and reconciled monthly.	ΥN
2	The correct calibration chart is used to determine volume to the nearest 1/8 inch of product depth.	YN
3	Tank inventory readings are logged before and after each delivery.	YN
4	Gauge stick can be read to nearest 1/8 inch and can measure full height of tank.	YN
5	Monthly water readings measured to the nearest 1/8" and used in inventory calculation.	YN
6	Each dispenser has a totalizer with currently calibrated meter.	YN
7	12 months of release detection records.	YN
8	Fill pipe drop tube ends no more than one foot from bottom of tank.	YN
9	Suspected releases reported as required.	Y N
10	Ten-year exemption from advanced leak detection has expired. Ten-year exemption from advanced leak detection has expired.	YN
11	10 year exemption from advance leak detection expires- (date)	
 	Passed Inspection Y/N	YN
<u> </u>	r asseu inspection 1719	1 11
	Statistical Inventory Reconciliation (SIR) only	
12	Monthly monitoring is performed (See PART D)	YN
-13	SIR method has third party approval.	YN
14	Suspected releases reported as required.	YN
15	12 months of release detection records.	YN
*	Passed Inspection Y/N	YN
		+===
	Tightness Test only	
16	Tightness Test conducted on 5-year basis as tank Release Detection method.	YN
17	Tightness Test has third party approval.	Y N
18	Tightness Test performed by Oregon certified tester. Lic. #:	YN
19	Ten-year exemption from advance leak detection has expired.	YN
20	Suspected releases reported as required.	YN
21	Date next Tightness Test is due (1 yr, 3 yr or 5 yr) (date)	
22	10 year exemption from advance leak detection expires- (date)	
*	Passed Inspection Y/N	YN

mments:			,			
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Part G.4: Manual Tank Gauging- § 40 CFR 280.43(b)

Complete Part G.4 for USTs using Manual Tank Gauging

	Control of Artificial park				
1	Records show level measurements taken at start and end of 36, 44 or 58 hours with	Y	N	YN	YN
	no product added or removed during the period.	<u> </u>			
_ 2	Weekly measurements are recorded.	Y	N	YN	YN
_3	○ Monthly reconciliation / comparison done correctly,	Y	N	YN	ΥN
4	Level at start and end is average of two stick readings.	Y	N	YN	ΥN
5	Weekly and monthly average of variation between start and end is less than	Y	N	ΥN	YN
L .	standard for tank size and waiting time.				
6	Gauge stick can be read to 1/8" to full height of tank.	Y	N	YN	Y. N
7	MTG is sole leak detection for tanks up to 1,000 gallons.	Y	N	YN	YN
8	MTG + TTT for 1,001 to 2,000 gallon tank, <10 yrs after CP added.	Y	N	YN	YN
9	If #8=Y, TTT done in last 5 yrs. (Complete Part G.3 #15 THROUGH #21)	Y	N	YN	YN
10	12 months of monitoring records.	Y	N	ΥN	ΥN
11	Suspected releases reported as required.	Y	N	YN	ΥN
*	MTG Passed Inspection	Y	N	YN	ΥN

Comments:			
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Part G.5: Groundwater Monitoring- § 40 CFR 280.43(f)

Complete PART G.5 if facility uses the groundwater monitoring release detection method.

Well is registered with the Oregon Water Resources Department.	Y	N	Y	N	Y N	Y	N
Well log is available and on file.	Y	N	Y	N	Y N	Y	N
Well is clearly marked and secure.	Y	N	Y	N	Y N	Y	N
Water in well was observed at a depth of (x, ft) bgs.		- ft		fì	ft		R

Answer Yes or No for each question below.

1	Groundwater monitoring is used as Release Detection method for all USTs at this facility.	Y	N
2	Groundwater monitoring is used as Release Detection method for all piping at this facility.	Y	N
3	Site assessment was completed prior to installation of groundwater monitoring wells.	Y	N
4	Documentation of monthly monitoring is available and in file.	Y	N
5	Specific gravity of stored product is less than one.	Y	N
6	Hydraulic conductivity of the soil between the UST system and wells is not less that 0.01 cm/sec.	Y	N
7	Hydraulic conductivity was determined by a registered geologist and report is available.	Y	N
8	Groundwater is not more that 20 feet from ground surface.	Y	N
9	Wells are sealed from the ground surface to the top of the filter pack.	Y	N
10	Wells are located within UST excavation or as close as feasible.	Υ	N
11	Screened interval intercepts groundwater under both high and low water conditions.	Y	N
12	Continuous monitoring or manual method can detect presence of 1/8 inch of product on water.	Y	N
13	Groundwater is monitored Manually on a daily basis.	Y	N
14	Groundwater is monitored continuously and system components are present and operational	Y	N
15	Well does not cause any increased risk to human health or the environment.	Y	N
×	Groundwater monitoring system passed inspection.	Y	N

Make sure that the site diagram on page 2 indicates the location of each groundwater monitoring well and the distance from the UST system.

Comments:	
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Part G.6: Vapor Monitoring- § 40 CFR 280.43(e)

Complete PART G.6 if UST Systems uses Vapor Monitoring as a release detection method.

	8	Vell	#1		/ell	#2	We	#1 #3		Well	#4
Well is clearly marked and secure.	3	7	N	Y		N	Y	N	T	Y	N
Well caps are tight	ን	•	N	Y		N	Υ	N		Y	N
Constructed to prevent interference by moisture	7	<i>"</i>	N-	Y		N	Y	N	\perp	Y	N
Well is free of debris and seems to have been recently checked	П	7	N	Y		N	Y	N	M	Y	N

1	UST excavation zone was assessed prior to vapor monitoring system installation.	Y	Ŋ
2	Backfill material is sufficiently perous.	Y	N
3	Stored product or tracer is sufficiently volatile to be detected by equipment used.	Y	N
4	Rainfall, groundwater, soil moisture or other interference will not delay 30-day detection time.	Y	N
5	Background contamination will not interfere with detection method.	Y	N
6	Vapor monitor will detect any significant increase above background.	Υ	N
	Automatic Systems		
7	Control box is accessible and power is on.	Y	N
8	Documentation of continuous monitoring for last 12 months is available.	Y	N
9	Equipment is accessible and functional.	Y	N
10	Vapor sensor is maintained and calibrated within last year, as per manufacturer.	Y	N
	Manual Systems		
11	Documentation of daily monitoring for last 12 months is available	Y	N
12	Equipment is accessible and functional.	Y	N
13	Vapor sensor is maintained and calibrated within last year, as per manufacturer.	Υ	N
*	Vapor monitoring system passed inspection	Y	N

Make sure that the site diagram on page 2 indicates the location of each vapor monitoring well and the distance from the UST system.

Comments:	
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	Jan Carlotte
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	The second flavor will be a first flavor.

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Part G.7: Pressure Piping Release Detection- § 40 CFR 280.44

Complete PART G.7 for all pressure piping systems.

Make and Model of all Detectors: Enter information in PART K-General Comments

2000000000		· ·		v mmmmm	VIII III III III III III III III III II		
<u>.</u>							
1	Other Tank method utilized.	YN	YN	YN	YN	Y N	Y N
	omatic Line Leak Detectors			T	Y == =	1	1 == ==
2	Mechanical Line Leak Detectors utilized.	YN	Y.N	YN	YN	YN	YN
3	Electronic Line Leak Detectors utilized.	YN	YN	YN	YN	YN	YN
4	O Can detect leak in all piping that contains product	 	<u> </u>	 	 		<u> </u>
5	Detector is 3 rd -Party approved.	YN	YN	YN	YN	YN	YN
6	○ Leak Detector install and O&M as required.	Y.N.	YN	YN	YN	YN	YN
7	Mechanical LLD tested annually.	YN	YN	YN	YN	YN	YN
8	LLD activates product shut off.	YN	YN	YN	YN	YN	YN
9	LLD activates product flow restrictor.	ΥN	YN	YN	YN	Y N	YN
10	LLD activates audible or visual alarm.	YN	YN	ΥN	YN	YN	ΥN
11	Suspected releases reported as required.	YN	YN	Y N	ΥN	YN	YN
*	Line Leak Detectors passed inspection	YN	ΥN	YN	ΥN	YN	YN
	ual Line Tightness Testing						
12	Line Tightness Test required.	ΥN	YN	ΥN	YN	ΥN	ΥN
13	Conventional Tightness Test performed.	ΥN	ΥN	ΥN	YN	YN	ΥN
14	Tightness Test is 3 rd -Party approved.	YN	ΥN	YN	ΥN	YN	YN
15	→ TTT performed by Oregon certified Tester.	YN	YN	YN	ΥN	YN	YN
16	Electronic Tightness Test performed.	ΥN	ΥN	ΥN	ΥN	YN	YN
17	⊃ Electronic LLD 3 rd -Party certified @ 0.1 gph.	YN	ΥN	ΥN	YN	YN	ΥN
18	⊃ LLD install and O&M as per manufacturer.	YN	ΥN	ΥN	ΥN	YN	ΥN
19	Suspected releases reported as required.	YN	YN	YN	ΥN	YN	YN
*	Annual Line Tightness Test passed inspection	YN	YN	YN	ΥN	ΥN	YN
	y monitoring used in lieu of Annual Line Tightness To						
20	Daily Interstitial Monitoring (pipe) performed	YN	YN	YN	ΥN	YN	YN
21	Daily Interstitial Monitoring (sump) performed	YN	ΥN	ΥN	Y N	YN	YN
22	Daily Groundwater Monitoring performed (G.5)	YN	YN	ΥN	ΥN	ΥN	YN
23	Daily Vapor Monitoring performed (G.6)	YN	ΥN	ΥN	ΥN	ΥN	YN
24	O Can detect leak in all piping that contains product.	Y N	ΥN	Y N	YN	YN	ΥN
25	Monitoring equipment is 3 rd -Party certified.	ΥN	ΥN	ΥN	Y N	YN	YN
26	⊃ Equipment install and O&M as per manufacturer.	YN	ΥN	ΥN	ΥN	YN	YN
27	⊃ Daily method functional	YN	YN	ΥN	YN	YN	YN
28	12 months of daily records.	YN	ΥN	Y N	YN	YN	YN
29	Suspected releases reported as required.	YN	YN	YN	YN	YN	YN
*	Daily monitoring passed inspection	ΥN	ΥN	YN	YN	YN	YN
					-		

Part G.8: Suction Piping Release Detection-§ 40 CFR 280.41(b)(2)

						$\otimes_{\mathbb{X}}$						\mathbb{R}^{2}	
1_	Pipe slopes to tank and operates at atmosphere.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
2	Only one check valve used.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Ν
3	Check valve under dispenser.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
4	#1, #2, & #3 verified?- No Release Detection required.	E	rplai	n in	PAF	T I							
5	○ Monthly Monitoring method utilized.	Y	N	Y	N	Y	N	Y	N	Y	N	73	'Ν
6	☐ Line Tightness Test performed every 3 years.	Y	N	Y	N	Y	N	Y	N	Y	N	7	ΥN
7	LTT has 3 rd -Party evaluation.	Y	N	Y	N	Y	N	Y	N	Y	N	73	ΥN
8	LTT performed by Oregon certified Tester.	Y	N	Y	N	Y	N	Y	N	Y	N	7	ΥÑ
9	Suspected release reported as required.	Y	N	Y	N	Y	N	Y	N	Y	N	7	ΖN

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Part H: Corrosion Protection § 40 CFR 280.20 and 21

Complete PART H for all UST systems that have corrosion protection equipment.

1	Tank is an "EXISTING" steel tank.	Y	N	Ý	N	Y	N	Y	N	Y	N	Y	N
2	Tank is a "NEW" steel tank.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
3	Tank has "Galvanic" corrosion protection.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
4	Tank has "Impressed Current" CP.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
5	Steel tank has CP as required.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

6	Piping is "EXISTING" metal pipe.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
7	Piping is "NEW" metal pipe.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
8	Piping has "Galvanic" corrosion protection.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
9	Piping has "Impressed Current" CP.	Y	Ŋ	Y	N	Y	N	Y	Ŋ	Y	N	Y	N
10	⊃ Steel Pipe has CP as required.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

		. (********		********									
11	OK.	Y	N	Y	N	Y,	N	Y	N	Y	N	Y	N
12	> "NEW" tank has suitable dielectric coating.	Y	N :	Y	N	Y	N	Y	N	Y	N	Y	N
13	Date CP was installed:					İ							
14	☐ Tank CP System has Test Station.	Ϋ́	\mathbf{N}	Y	N	Y	Ν	Y	N	Y	Ņ	Y	N
15	⊃ Field Constructed CP Designed by Expert.	Y : \	N	\mathbf{Y}	N	Y	N.,	Y	N	Y	N	Y	N
16	○ CP protects all metal parts continuously.	Y	N	Y	N"	Y	N.	Y	N	Y	N	Y	N
17	⊃ 6-month inspection completed.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
18	Date of 6-month inspection:												
19	⊃ Records for last two inspections.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
20	Date next inspection is due:									Ī			
21	☐ Inspection by accepted method.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
22	System has power and is "ON". (IC only)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
23	○ 60-day log is present and current. (IC only)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
24	○ 6 complete months of log entries. (IC only)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
*	Tank CP passed inspection	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
			i										
25	"NEW" piping has suitable dielectric coating.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
26	Date piping CP system installed.								,				
27	○ CP Test Station for piping installed.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
28	→ Field Constructed CP designed by expert.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
29	→ CP protects all metal parts continuously.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
30	⊃ 6-month Inspection completed.	Y	N	Ŷ	N	Y	N	Y	N	Y	N	Y	N
31	Date of 6-month inspection:												
32	Date next inspection is due:												
33	⇒ Inspection by accepted method.	Y	Ν	Y	N	Y	N	Y	N	Y	N	Y	N
34	⊃ Records for last two inspections.	Υ	N	. Y	N	Y	N	Y	N	Y	N	Y	N
35	⊃ System has power and is "ON". (IC only)	Y.	N .	Y	N	Y	N	Y	N	Y	N	Y	N
36	⊃ 60-day log is present and current. (IC only)	Y	N .	·Y	N ^	Y	N	Y	N	Y	N	Y	N
37	⊃ 6 complete months of log entries. (IC only)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
*	Piping CP passed inspection	Y	N T	Y	N	Y	N	Y	N	Y	N	Y	N

Enter written comments regarding PART H in PART L.

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Part I: Internal Lining § 40 CFR 280.21

Complete PART I if the Tank has internal lining and NO corrosion protection.

	the same and						1						
1	Date tank lining was installed.									İ			
2	Lining Installer	Γ											
3	Lining installed by approved method.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
4	10-Year inspection due.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
5	10-year lining inspection completed.	Y	·N·	·Y	N	Y	N	Y	N	Y	N	Y	N
6	10-year inspection by 3 rd -Party method.	Y	N.	Ÿ	N_	Y	N	Y	N	Y	N	Y	N
7	10-year lining inspection passed.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
8	5-year inspection due.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
9	5-year inspection completed.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
10	5-year inspection by 3 rd -Party method.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
11	5-year inspection passed.	Y	N	Y	N_	Y	N	Y	N	Y	N	Y	N
12	Date next inspection is due:												
*	Lined tanks passed inspection	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

Part J: Temporary Closure § 40 CFR 280.70

Complete PART J for all UST systems that are closed or in Temporary Closure.

If Release Detection is required, complete the appropriate sections of PART D and PART G.

If Corrosion Protection is required, complete PART H.

If the Tank has an Internal Lining and has NO corrosion protection, complete PART I.

1	System in Temporary Closure.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
2	Temporary Closure Start Date			V									
3	Temporary Closure duration longer than 3 mos.	Y	N,	Y	Ŋ	Y	'n.	· Y	N	Y	N	Y	N
4	System capped and secured as required.	Y	N.	Y	N	Y		Y	N	Y	N	Y	N
		<u></u>	-					Щ,		L	-	<u> </u>	
5	Release Detection required.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
6	Release Detection method is valid. (D)	Y	N	Y	N	Y	N.	Y	N	Y	N	Y	N
7	Release Detection performed as required. (G)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
8	Corrosion Protection required.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
9	Corrosion Protection O&M as required. (H)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
10	Tank has Internal Lining.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
11	Internal Lining inspected as required. (I)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
***********				***********		******					~~~~~	*********	
12	Release Detection required.	Y	N	Y	<u>N</u> _	Y	N	Y	N	Y	N	Y	N
13	Release Detection method is valid. (D)	Y	N :	Y	N_	Y	N	Y	N	Y	N	Y	N
14	Release Detection performed as required. (G)	Y	N	Y	N	Y	N	Y	N	Y	Ν	Y	N
15	Corrosion Protection required.	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
16	Corrosion Protection O&M as required (H)	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
	· · · · · · · · · · · · · · · · · · ·				· · ·								

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ALEMITE - MICROFLEX - DIXON - DAYCO - GATES - BAND IT - IDEAL - COXREELS - HANNAY - SIERRA - BANJO - WILLCOX - FLEXAUST - KANAFLEX - GENERAL RUBBER - SCHLUMBERGER - BEHRINGER - TITEFLEX - OPW ENGINEERED - PT COUPLING - FEDERAL HOSE - EGC - GOODYEAR - HYDRO LINE - IDEAL - THERMOID

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Here is our Quote to replace
Your hoses. Our avote includes
The system we discussed to
CONTAIN ANY TEAKAGE From A
Failed "inwer" hose.
Lets get together on this
300N 1 hours
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OR 97231-1127

CUST PHONE: 503-286-0631

CUST FAX: 503-735-4976

				•		
LINE	ITEM NUME	3ER	DESCRIPTION	QUANTITY	UNIT PRICE	u/l
10	2LONGHORN	IH524-1H524-1BB-19	HOSE ASSY W/SC	0 1	213, 2500	EA
		2" X 19' OAL GATES	LONGHORN PET.	HOSE		
		C/W FEMALE X FEMAL	E SCOVILL EACH	END		
		TEST AND CERTIFY				
80	3LONGHORN	IK526-1H526-18B-19	HOSE ASSY W/SC	0 2	410.9500	EA
		3" X 19' OAL GATES	LONGHORN PET.	HOSE		
		C/W FEMALE X FEMAL	E SCOVILL EACH	END		
		TEST AND CERTIFY				
150	2LONGHORN	H524-1H524-1BB-6.5	HOSE ASSY W/SC	0 1	151.9500	EΑ
		2" X 6' 6" OAL GAT	ES LONGHORN PET	. HOSE		
		C/W FEMALE X FEMAL	E SCOVILL EACH	END		
		TEST AND CERTIFY				
220	3LDNGHORN	H526-1H526-1BB-6.5	HOSE ASSY W/SC	0 2	316.7000	EA
		3" X 6' 6" OAL GAT	ES LONGHORN PET	. HOSE		
		C/W FEMALE X FEMAL	E SCOVILL EACH	END		
		TEST AND CERTIFY				
290	6 IS600		RED DISCH HOSE		2.1600	FΥ
		CUT TWO PIECES 24	FEET LONG & TWO	9' 6"		
		LONG				
		INSTALL TANK FLANG	E (TF100V) 2 FE	et down		
		FROM ONE END OF HO	SE - APPOXY FIT	TING IN		
		HOSE				
300	4 IS400		RED DISCH HOSE		2.1600	FT
		CUT ONE HOSE 24 FE	ET LONG & ONE 9	' 6" LONG		
		ATTACH TANK FLANGE	(TF100V) 2 FEE	T IN FROM		
		END DF HOSE - APOX	Y FITTING IN PL	ACE		
310	HB100		1" POLY NIPPLE	14	.6000	EΑ
320	TF100V		1" BULKHEAD FT	G 5	9.4500	EA
330	CR100			2	6.3100	FT
340	SWCV100		DIXON	6	11.8000	EΑ
		BRASS SWING CHECK	VALVE - HORIZON	TAL OR		
		VERTICAL				
3 50	NIP100-4	VERTICAL	BANJO	6	.9700	ΕA
	NIP100-4 1 PREMOFX	250	GATES MP HOSE	1	.9700 2.2200	
			GATES MP HOSE	1		

F.O.B.: SP, FNA, PREPAID PAYMENT: NET 30 DAYS

TERMS:

AUTHORIZED SIGNATURE

of an all of the demonstrator and all the first	
	le Corrosion Protection
	· Use non-corrosive materials
	· Cathodic protections
	571-13 that tanks w/ cathodic Protection
	Single or double wall tanks
	o u " Piping
	o unprotected steel tanks w/lining w/loyear
	inspection & there after 5 years unless
	cathodic protection is added
د که در همان استخداد استخداد این بازمین و در در بری که	
	1. Soil 0 - exection
	2. Spill prevention
	e coil be lest:
	• spill bucket on ventriser - approved
	Ducket that is clean & dry.
	e containments_ must be clean & Dry
	
	Over Fill protection - Tanks must never
	robe Filled be yound 95%
·	Driver of truck & purchaser are Lighte
	1 vent pipe Float valves are poor protection
	2 use 950% shut off drop tubes
	3 Automatic Tank guage w/ over fill alarm
	audiable to drive at dress protection
	audiable to driver at drop protection 90% level for alarm set point Alarmin
	95% level For High High set point
	constant alarm as long level above
·	95%

UST COMPLIANCE RULES

Oregon Department of Environmental Quality
Underground Storage Tank Program
OAR Chapter 340, Division 150



State of Oregon Department of Environmental Quality



Land Quality Division

Underground Storage Tank Program

811 SW Sixth Ave. Portland, OR 97204 Phone: (800) 742-7878 Fax: (503) 229-6954 www.deq.state.or.us

Printed 2/26/03

Oregon Department of Environmental Quality Adopts Revised UST Rules

On January 30, 2003, the Environmental Quality Commission approved revisions to the rules pertaining to underground storage tanks (USTs) in Oregon. These rules were officially filed with the Secretary of State's Office on February 14, 2003, and became effective on that date.

These regulations are applicable to all owners and permittees of regulated USTs (not including heating oil tanks). Federal regulations promulgated by the Environmental Protection Agency that were previously adopted by the Department of Environmental Quality have been incorporated into Oregon Administrative Rules. Requirements for Financial Responsibility (insurance) for petroleum USTs are included in a new Division 151.

This verision of the regulations has certain new provisions highlighted for the reader's convenience. However, owners, permittees and licensed UST service providers should read and be familiar with all sections that pertain to their UST system or occupation. The two significant new requirments specified by the 2001 Legislature are mandatory training for UST System Operators and an expedited enforcement process (i.e., "tickets" for violations that are issued by an inspector while at the facility). The Department will provide detailed guidance information about these new programs in separate documents expected to be complete by April, 2003.

It is important to note that the majority of the revisions were made to clarify existing rule language (especially federal portions of the regulations) to make reading and understanding the rules easier for the regulated community. New requirements and significant changes to existing requirements are highlighted by a double-line in the left margin of the text, as shown here as an example.

Our first priorities for guidance development are for operator training and expedited enforcement. Do you have suggestions for other topics where additional guidance would be helpful? If so, please send your written suggestions to:

UST Compliance Program
811 SW Sixth Avenue, Portland, OR 97204
Fax: (503) 229-6954 or Email: tanks.info@deg.state.or.us



DIVISION 150 UNDERGROUND STORAGE TANK RULES

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Purpose

- (1) The purpose of these rules is:
- (a) To provide for the regulation of underground storage tanks (USTs) to protect the public health, safety, welfare and the environment from the potential harmful effects of spills and releases from underground tanks used to store regulated substances;
- (b) To prevent releases due to structural failure, system leaks, corrosion, spills and overfills for as long as an UST system is used to store regulated substances;
- (c) To promote the proper operation and maintenance of UST systems through training of UST facility personnel and expedited enforcement of violations; and
- (d) To obtain state program approval to manage underground storage tanks in Oregon in lieu of the federal program, as required by ORS 466.720.

340-150-0006

Applicability and General Requirements

- (1) An owner and permittee of an UST system as defined by OAR 340-150-0010(84) must comply with this division, except to the extent exempted or deferred by OAR 340-150-0008 or limited by 340-150-0135(8).
- (2) An owner and permittee of an UST system must apply to the department for a general permit registration certificate under OAR 340-150-0020 if the UST system:
 - (a) Is in operation on or after May 1, 1988;
- (b) Was taken out of operation between January 1, 1974, and May 1, 1988, and not permanently closed by a method that meets the requirements of OAR 340-150-0168(4); or
- (c) Was taken out of operation before January 1, 1974, but still contains a regulated substance (i.e., the UST is not empty).
- (3) Each chamber or compartment of a multichamber or multicompartment UST is an individual tank for the purpose of OAR chapter 340, divisions 150 and 151.

[Note: Throughout this division, the term "owner and permittee" is used to denote joint responsibility for compliance. Where the owner and permittee are different, compliance by either will be deemed compliance by both.]

340-150-0008

Exemptions and Deferrals

- (1) An owner of an UST located on Indian lands, as defined in 18 U.S.C. Subpart 1151, is exempt from OAR chapter 340, divisions 150 and 151.
- (2) Heating oil tanks are exempt from OAR chapter 340, divisions 150 and 151, but the heating oil tank owner must comply with the requirements of ORS 466.858 through 466.882 and OAR chapter 340, division 177.
- (3) An owner of the following types of USTs and any connected piping is exempt from the requirements of OAR chapter 340, divisions 150 and 151:
- (a) Farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes (i.e., not for resale);
 - (b) Septic tanks;
 - (c) Pipeline facilities (including gathering lines) that are:
 - (A) Regulated under the Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. App. 1671, et seq.);
 - (B) Regulated under the Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. App. 2001, et seq.); or
- (C) Intrastate pipeline facilities regulated under state laws comparable to the provisions of the law referred to in paragraph (A) or (B) of this subsection.
 - (d) Surface impoundments, pits, ponds or lagoons;
 - (e) Storm water or wastewater collection systems;
 - (f) Flow-through process tanks;
 - (g) Liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
- (h) Storage tanks situated in an underground area (such as a basement, cellar, mine-working, drift, shaft or tunnel) if the storage tank is situated upon or above the surface of the floor;
- (i) UST systems holding hazardous wastes listed or identified under Subtitle C of the Solid Waste Disposal Act (SWDA) or a mixture of such hazardous waste and other regulated substances;
- (j) Wastewater treatment tank systems that are part of a wastewater treatment facility regulated under Section 402 or 307(b) of the Clean Water Act;
 - (k) Equipment or machinery that contains regulated substances for operational purposes, such as hydraulic lift tanks and

electrical equipment tanks;

- (1) UST systems with a capacity of 110 gallons or less;
- (m) UST systems that have never contained more than a "de minimis" concentration of regulated substances; and
- (n) Emergency spill or overflow containment UST systems that are expeditiously (i.e., as soon as practicable after emergency has been abated) emptied after use.
- (4) The following UST systems are deferred from the requirements of this division, except owners must comply with the conditions of sections (5) and (6) of this rule:
 - (a) Wastewater treatment tank systems;
- (b) UST systems containing radioactive materials that are regulated under the Atomic Energy Act of 1954 (42 U.S.C. 2011 and following):
- (c) UST systems that are part of an emergency generator system at nuclear power generation facilities regulated by the Nuclear Regulatory Commission under 40 CFR 50 Appendix A;
 - (d) Airport hydrant fuel distribution systems; and
 - (e) UST systems with field constructed tanks.
- (5) A person may not install an UST system listed in section (4) of this rule for the purpose of storing regulated substances unless the UST system (whether of single- or double wall construction):
 - (a) Will prevent releases due to corrosion or structural failure for the operational life of the UST system;
- (b) Is cathodically protected against corrosion, constructed of noncorrodible material, steel clad with a noncorrodible material or designed in a manner to prevent the release or threatened release of any stored substance; and
 - (c) Is constructed or lined with material that is compatible with the stored substance.
- (6) An owner of any UST system listed in section (4) of this rule must conduct corrective action in the event of a release from the system.
- (7) An owner may use The National Association of Corrosion Engineers Standard Recommended Practice RP0285, "Control of External Corrosion on Metallic Buried, Partially Buried or Submerged Liquid Storage Systems," (2002) as guidance for complying with sections (4) and (5) of this rule.

340-150-0010

Definitions

For the purpose of this division and as applicable for OAR chapter 340, divisions 151 and 160, the following definitions apply:

- (1) "Ancillary equipment" means any devices including, but not limited to, connected piping, fittings, flanges, valves and pumps used to distribute, meter or control the flow of regulated substances to and from an UST.
- (2) "As built drawing" or "as built" means a line drawing to-scale that accurately illustrates the location of USTs, underground piping and all related equipment in relation to buildings or other structures at an UST facility and provides thorough construction documentation. Other terms used in lieu of "as built" are "record drawing" or "measured drawing", which indicate that the drawing is for an existing structure or UST system.
- (3) "Cathodic protection" means a technique to prevent corrosion of a metal surface by making that surface the cathode of an electrochemical cell. For example, an UST system can be cathodically protected through the application of either galvanic anodes or impressed current.
- (4) "Cathodic protection tester" means a person who demonstrates an understanding of the principles and measurements of all common types of cathodic protection systems as applied to buried or submerged underground metal piping and tank equipment.
- (5) "CERCLA" means the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended
- (6) "Change-in-service" means to transfer an UST system containing a regulated substance from regulated status (i.e., subject to the requirements of this division) to nonregulated status while the UST remains in its original location.
- (7) "Closure" means to permanently decommission an UST (by removal, filling in-place with an inert material or change-in-service) or to temporarily remove an UST from operation.
 - (8) "Commission" means the Oregon Environmental Quality Commission.
- (9) "Compatible" means the ability of two or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the UST system under conditions likely to be encountered in the UST.
 - (10) "Confirmed release" means:
- (a) For petroleum. Contamination observed in soil or groundwater as a sheen, stain or petroleum odor or petroleum contamination detected in soil by the Northwest Total Petroleum Hydrocarbon Identification Analytical Method (NWTPH-HCID, DEQ, December 1996) or detected in groundwater by any appropriate analytical method specified in OAR 340-122-0218; or

- (b) For hazardous substances other than petroleum. Contamination observed in soil or groundwater as a sheen, stain or identifiable odor or as detected in soil, surface water or groundwater by any appropriate analytical method specified in "Test Methods for Evaluating Solid Waste," SW-846, 3rd Edition, Revised May 1997 (U.S. Environmental Protection Agency).
- (11) "Connected piping" means all piping located beneath the surface of the ground including valves, elbows, joints, flanges and flexible connectors attached to an UST system through which regulated substances flow. For the purpose of determining how much piping is connected to any individual UST system, the piping that joins two UST systems should be allocated equally between them.
- (12) "Corrective action" means remedial action taken to protect the present or future public health, safety, welfare or the environment from a release of a regulated substance. "Corrective action" includes but is not limited to:
- (a) The prevention, elimination, removal, abatement, control, investigation, assessment, evaluation or monitoring of a hazard or potential hazard or threat, including migration of a regulated substance; or
 - (b) Transportation, storage, treatment or disposal of a regulated substance or contaminated material from a site.
- (13) "Corrosion expert" means a person who, by reason of thorough knowledge of the physical sciences and the principles of engineering and mathematics acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged underground metal piping systems and metal tanks. Corrosion experts must be accredited or certified by NACE (National Association of Corrosion Engineers) and licensed by the department under OAR chapter 340, division 160.
- (14) "Decommission" means temporary or permanent closure, including temporary or permanent removal from operation, filling in-place, removal from the ground or change-in-service to a nonregulated status.
 - (15) "Deferred" means an UST system that may be subject to state or federal regulation at some point in the future.
- (16) "De minimis" means an insignificant amount of regulated substance (e.g., meets the definition of "empty") or is less than a reportable quantity as defined under CERCLA.
 - (17) "Department" means the Oregon Department of Environmental Quality.
- (18) "Dielectric material" means a material that does not conduct direct electrical current. Dielectric coatings are used to electrically isolate an UST system from the surrounding soils. Dielectric bushings are used to electrically isolate portions of an UST system (e.g., the tank from underground piping).
- (19) "Dispenser" means a device that is used for the delivery of a regulated substance from an UST (e.g., fuel from an UST to a motor vehicle). The term includes associated metering, delivery mechanisms and other equipment contained inside a housing unit for the dispenser.
- (20) "Distributor" means a person who is engaged in the business of selling regulated substances to an owner or permittee of an UST.
- (21) "Electrical equipment" means equipment that is beneath the surface of the ground and contains dielectric fluid that is necessary for the operation of equipment such as transformers and buried electrical cable.
- (22) "Emergency generator" means an engine that uses fuel (regulated substance) to produce auxiliary electrical or mechanical energy for use in emergencies.
- (23) "Empty" means that all materials have been removed using commonly employed practices so that no more than one inch (2.5 centimeters) of residue or 0.3 percent by weight of the total capacity of the tank remain in the UST system.
- (24) "Excavation zone" means an area containing an UST system and backfill material bounded by the ground surface, walls and floor of the pit and trenches into which the UST system is placed at the time of installation.
- (25) "Farm tank" means a tank located on a tract of land devoted to the production of crops or raising animals, including fish and associated residences and improvements. A farm tank must be located on the farm property. "Farm" includes fish hatcheries, rangeland and nurseries with growing operations.
 - (26) "Fee" means a fixed charge or service charge.
- (27) "Field constructed tank" means an UST that is constructed at the location it will be installed rather than factory-built.
 - (28) "Field penalty" means a civil penalty amount assessed in a field citation.
- (29) "Flow-through process tank" means a tank that forms an integral part of a production process through which there is a steady, variable, recurring or intermittent flow of materials during the operation of the process. Flow-through process tanks do not include tanks used for the storage of materials before their introduction into the production process or for the storage of finished products or by-products from the production process.
- (30) "Free product" means a regulated substance that is present as a nonaqueous phase liquid (e.g., liquid not dissolved in water).
- (31) "Gathering lines" means any pipeline, equipment, facility or building used in the transportation of oil or gas during oil or gas production or gathering operations.
- (32) "General permit" means a permit issued for a category of UST activities (e.g., installing, decommissioning or operating an UST) in lieu of individual permits developed for each UST facility.
 - (33) "Hazardous substance UST system" means an UST system that contains a hazardous substance defined in section

- 101(14) of CERCLA or any mixture of such substances and petroleum and which is not a petroleum UST system (but not including any substance regulated as a hazardous waste under Subtitle C of the SWDA).
- (34) "Heating oil" means petroleum that is No. 1, No. 2, No. 4--light, No. 4--heavy, No. 5--light, No. 5--heavy and No. 6 technical grades of fuel oil; other residual fuel oils (including Navy Special Fuel Oil and Bunker C); and other fuels when used as substitutes for one of these fuel oils. Heating oil is typically used in the operation of heating equipment, boilers or furnaces.
- (35) "Heating oil tank" means a tank used for storing heating oil for consumptive use on the premises where stored (i.e., the tank is located on the same property where the stored heating oil is used).
- (36) "Hydraulic lift tank" means a tank holding hydraulic fluid for a closed-loop mechanical system that uses compressed air or hydraulic fluid to operate lifts, elevators and other similar devices.
- (37) "Install" or "installation" means the physical construction of an UST system, including, but not limited to, activities such as excavating, backfilling, testing, placement of the tank, underground piping, release detection devices, corrosion protection systems, spill and overfill devices and any associated administrative activities such as notifications, record keeping and record submissions.
- (38) "Interstitial" means the space between the primary and secondary containment systems (i.e., the space between the inner and outer walls of a tank or pipe).
- (39) "Investigation" means monitoring, surveying, testing, sampling, analyzing or other information gathering techniques.
 - (40) "Leak" has the same meaning as "release" as defined by OAR 340-150-0010(63).
- (41) "Liquid traps" means sumps, well cellars and other traps used in association with oil and gas production, gathering and extraction operations (including gas production plants), for the purpose of collecting oil, water and other liquids. These liquid traps may temporarily collect liquids for subsequent disposition or reinjection into a production or pipeline stream or may collect and separate liquids from a gas stream.
- (42) "Maintenance" means the normal operational upkeep to prevent an UST system from releasing a regulated substance or to ensure that a release is detected.
- (43) "Modification" means to change an UST system currently in use by the installation of new UST system components. This includes, but is not limited to, the addition of corrosion protection to a previously lined tank, installation of new underground piping or replacement of existing underground piping, changing the primary release detection method to one of the methods listed in OAR 340-150-0450 through 340-150-0470 or adding secondary containment. "Modification" does not include those activities defined as "repair" or "replacement".
- (44) "Motor fuel" means petroleum or a petroleum based substance that is motor gasoline, aviation gasoline, No. 1 or No. 2 diesel fuel or any grade of gasohol and is typically used in the operation of a motor engine.
- (45) "Multichamber" or "multicompartment" means an UST that contains two or more chambers or compartments created by the presence of an interior wall so that two or more regulated substances can be stored at the same time within a single tank shell. Even if the same regulated substance is stored in all chambers or compartments, the UST is a multichambered or multicompartmented UST for the purpose of these rules.
- (46) "Native soil" means the soil outside of the immediate boundaries of the pit that was originally excavated for the purpose of installing an UST.
 - (47) "OAR" means Oregon Administrative Rule.
- (48) "Operate" or "operation" means depositing a regulated substance into an UST, storing a regulated substance in or dispensing a regulated substance from an UST and such other activities, including, but not limited to, performing release detection, maintaining corrosion protection, preventing spills and overfills, investigating and confirming suspected releases, conducting maintenance, additions, modifications, replacements and repairs of equipment, maintaining a financial responsibility mechanism and keeping and submitting records on the UST and underground pipings' performance.
- (49) "Operational life" means the period beginning when installation of the UST system has commenced until the time the UST system is permanently closed.
 - (50) "ORS" means Oregon Revised Statute.
- (51) "Owner" means a person who currently owns an UST or owned an UST during the tank's operational life, including:
- (a) In the case of an UST system in use on November 8, 1984, or brought into use after that date, any person who owns an UST system used for storage, use or dispensing of regulated substances; and
- (b) In the case of an UST system in use before November 8, 1984, but no longer in use on that date, any person who owned such UST immediately before the discontinuation of its use.
- (52) "Permittee" means the owner or person designated by the owner, who is in control of or has responsibility for daily UST system operation and maintenance, financial responsibility and UST operator training requirements under a general permit pursuant to OAR 340-150-0160 through 340-150-0168.
 - (53) "Person" means an individual, trust, firm, joint stock company, corporation, partnership, joint venture, consortium,

association, state, municipality, commission, political subdivision of a state or any interstate body, any commercial entity or the federal government or any agency of the federal government.

- (54) "Petroleum" or "oil" means gasoline, crude oil, fuel oil, diesel oil, lubricating oil, oil sludge, oil refuse and crude oil fractions and refined petroleum fractions, including gasoline, kerosene, heating oils, diesel fuels and any other petroleum-related product or waste or fraction thereof that is liquid at a temperature of 60 degrees Fahrenheit and a pressure of 14.7 pounds per square inch absolute. "Petroleum" does not include any substance identified as a hazardous waste under 40 CFR Part 261.
- (55) "Petroleum UST system" means an UST system that contains petroleum or a mixture of petroleum with de minimis quantities of other regulated substances. Such systems include those containing motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents and used oils.
 - (56) "Pipe" or "piping" means a hollow cylinder or tubular conduit that is constructed of nonearthen materials.
- (57) "Pipeline facilities" (including gathering lines) means new and existing pipe rights-of-way and any associated equipment, facilities or buildings.
- (58) "Probability of detection" means the likelihood, expressed as a percentage, that a test method will correctly identify a release from an UST system.
- (59) "Probability of false alarm" means the likelihood, expressed as a percentage, that a test method will incorrectly identify an UST system as leaking when a release is not occurring.
 - (60) "Property owner" means the legal owner of the real property on which an UST is located.
- (61) "Registration certificate" means a document issued by the department that authorizes a person to install, operate or decommission an UST system under a general permit pursuant to OAR 340-150-0160 through 340-150-0168.
 - (62) "Regulated substance" includes, but is not limited to:
- (a) Any substance defined in section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the SWDA);
- (b) Petroleum, including crude oil or any fraction thereof that is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute); and
- (c) Petroleum based substances comprised of a complex blend of hydrocarbons derived from crude oil though processes of separation, conversion, upgrading and finishing, such as motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents and used oils.
- (63) "Release" means the discharge, deposit, injection, dumping, spilling, emitting, leaking or placing of a regulated substance from an UST into the air or into or on land or the waters of the state, other than as authorized by a permit issued under state or federal law.
- (64) "Release detection" or "leak detection" means determining whether a release of a regulated substance has occurred from the UST system into the environment, into the interstitial space between the UST system and its secondary barrier or into a secondary containment unit or sump around the UST.
- (65) "Repair" means to restore any portion of an UST system that has failed, but does not include the activities defined by "modification" or "replacement".
- (66) "Replacement" means to effect a change in any part of an UST system by exchanging one unit for a like or similar unit, but does not include activities defined as "repair" or "modification".
 - (67) "Residential tank" means a tank located on property used primarily for single family dwelling purposes.
- (68) "Septic tank" means a watertight covered receptacle designed to receive or process, through liquid separation or biological digestion, the sewage discharged from a building sewer. The effluent from such receptacle is distributed for disposal through the soil and settled solids and scum from the tank are pumped out periodically and hauled to a treatment facility.
- (69) "Service provider" means a person licensed by the department to offer to perform UST services on USTs regulated under OAR chapter 340, division 150.
- (70) "Storm water" or "wastewater collection system" means piping, pumps, conduits and any other equipment necessary to collect and transport the flow of surface water run off resulting from precipitation or domestic, commercial or industrial wastewater to and from retention areas or any areas where treatment is designated to occur. The collection of storm water and wastewater does not include treatment except where incidental to conveyance.
 - (71) "Supervisor" means an individual licensed by the department to direct and oversee specific UST services.
- (72) "Surface impoundment" means a natural topographic depression, human-made excavation or diked area formed primarily of earthen materials (although it may be lined with human-made materials) that is not an injection well.
 - (73) "Suspected release" has the same meaning as described in OAR 340-150-0500.
- (74) "Tank" means a stationary device designed to contain an accumulation of regulated substances and is constructed of nonearthen materials (e.g., concrete, steel, plastic) that provide structural support.
 - (75) "Tank tightness testing" means a method used to determine if an UST is leaking and is used to supplement another

release detection method (such as inventory control or manual tank gauging) and to verify a suspected release when another method indicates a failure.

- (76) "Temporary closure" means a halt in operation activities of an UST system for a limited time where the UST system will be brought back into operation or permanently decommissioned at some future date. For example, an UST may be temporarily closed due to corrective action activities on site, abandonment by the owner and permittee, bankruptcy proceedings, failure to maintain a financial responsibility mechanism, sale in progress or for any other reason that a permittee may choose to stop operating the UST. The term applies to an UST system that meets the definition of "temporary closure" whether or not the department has issued a registration certificate for this activity to the owner and permittee.
 - (77) "Testing" means applying a method to determine the integrity or operational status of any part of an UST system.
- (78) "Third party evaluation" means an evaluation of a method or system including, but not limited to, a release detection system or tank integrity assessment method that is conducted by an independent organization. The evaluation includes certification that the method evaluated will operate as designed and includes information about any limitations of the method. As used in this definition, "independent" means that the organization that conducted the evaluation may not be owned, controlled by or associated with any client, industry organization or any other institution with a financial interest in the method or system evaluated.
- (79) "Underground area" means an underground room, such as a basement, cellar, shaft or vault that provides enough space for physical inspection of the exterior of the tank situated on or above the surface of the floor.
 - (80) "Underground piping" means connected piping that is located beneath the surface of the ground.
- (81) "Underground storage tank" or "UST" means any one or combination of tanks (including connected underground pipes) that is used to contain an accumulation of regulated substances and the volume of which (including the volume of connected underground pipes) is 10 percent or more beneath the surface of the ground.
- (82) "UST facility" means the real property on which an UST is installed or will be installed. An UST facility encompasses all contiguous real property owned by the same property owner that is associated with the operation of the UST system.
- (83) "UST services" includes without limitation, installation, decommissioning, modification, testing (e.g., cathodic protection and tank tightness) and inspection of UST systems.
- (84) "UST system" means an underground storage tank, underground piping, underground ancillary equipment and containment system, if any.
- (85) "UST system operator" means the individual designated by the owner and permittee as having control of or responsibility for the operation of an UST system, including the on-site operation and maintenance of the system in a manner to ensure that the UST system is in compliance with applicable state and federal regulations and industry standards.
- (86) "Wastewater treatment tank" means a tank that is designed to receive and treat influent wastewater through physical, chemical or biological methods.

340-150-0020

UST General Permit Registration Certificate Required

- (1) A person may not install, operate or decommission an UST without applying for and being issued a registration certificate from the department for one of the following UST general permit registration categories:
 - (a) Installation;
 - (b) Operation; or
 - (c) Decommissioning, including temporary and permanent closure by change-in-service, removal or filling in-place.
- (2) An owner or proposed permittee must submit an application to the department at least 30 days before installing, operating or decommissioning an UST. The application must include, but is not limited to, the following information and attachments:
 - (a) The legal name, signature and mailing address of the owner of the UST;
 - (b) The legal name, signature and mailing address of the owner of the real property on which the UST system is located;
 - (c) The legal name, signature and mailing address of the permittee.
- (A) The owner must designate a specific person as the permittee. If the person designated is a corporation, a contact person must be identified; or
 - (B) If a permittee is not designated, the owner is the permittee.
 - (d) A completed EPA Notification for Underground Storage Tanks or equivalent form developed by the department; and
- (e) A signed statement by the owner or proposed permittee that the owner or permittee (must identify which one) will comply with the financial responsibility requirements of OAR chapter 340, division 151 before operation of the UST system.
- (3) The owner or proposed permittee must include the appropriate registration fee with the application in accordance with OAR 340-150-0110(1) and (6) for an installation certificate for new USTs to be installed or 340-150-0110(5) for an operation or decommissioning certificate for USTs that should have been registered previously.
 - (4) An application that is incomplete, unsigned or that does not include the required attachments or fees will be returned

to the owner or proposed permittee for completion. The application will be considered to be withdrawn if the required information is not submitted within 90 days of the date that the application was returned by the department.

- (5) If the department determines that a general permit is not required, the owner and proposed permittee will be notified in writing and any fees submitted will be refunded. This notification constitutes final action by the department on the application.
- (6) When an application is determined to be complete, the UST facility and each individual UST will be assigned a unique identification number (i.e., UST facility ID number and tank permit number) by the department.
- (7) A general permit registration certificate is issued to the permittee for each UST facility. In all cases, the permittee must comply with the general permit requirements whether or not an actual registration certificate is issued.
- (8) For the purpose of this rule only, the term "legal name" means the business name registered with the Oregon Secretary of State's Office, Corporation Division (if registered) or full name of an individual.

340-150-0021

Termination of Temporary Permits

Any owner or permittee holding a temporary permit to operate an UST on or before December 22, 1998, who was not issued an *operation certificate* by the department by December 23, 1998, must decommission the UST under a general permit for temporary closure, permanent closure or change-in-service pursuant to OAR 340-150-0166 through 340-150-0168.

340-150-0052

Modification of Registration Certificates

- (1) A new owner or proposed new permittee must submit an UST general permit registration modification application to the department if any of the following occur:
 - (a) Change of ownership of property on which an UST system is located;
 - (b) Change in UST ownership; or
 - (c) Change in the designated permittee.
- (2) The modification application must be signed by the owner, permittee and property owner. The new owner or permittee must submit an application to the department promptly upon confirmation that the change has been legally documented (i.e., property sale is complete). Failure to submit the required modification application will result in termination of the operation certificate in accordance with OAR 340-150-0102(1).
- (3) The modification application must include a copy of the financial assistance mechanism (e.g., insurance certificate or endorsement, trust fund, etc.) that demonstrates compliance with the requirements of OAR chapter 340, division 151.
- (4) A \$75 general permit modification fee must accompany the modification application. Checks or money orders must be payable to the Department of Environmental Quality.
- (5) A new operation certificate will be issued to the permittee upon receipt of all required information and payment of the fee.

340-150-0080

Denial, Suspension or Revocation of General Permit Registration Certificates

- (1) An UST general permit registration certificate may be denied, suspended or revoked:
- (a) If there was a material misrepresentation or false statement in the application; or
- (b) If the UST system operation, maintenance, installation or decommissioning does not comply with the provisions of OAR chapter 340, divisions 150 or 151, applicable statutes, rules or department order.
- (2) The provisions of ORS 183.310 to 183.550 for a contested case proceeding apply to the denial, suspension or revocation of a general permit registration certificate.

340-150-0102

Termination of Registration Certificates

- (1) A general permit registration certificate will automatically terminate 120 days after any of the changes set forth in OAR 340-150-0052 have occurred, unless the department has received an application for modification.
 - (2) An installation certificate will automatically terminate when the department issues an operation certificate.
 - (3) An operation certificate will automatically terminate:
 - (a) When the department issues a temporary closure certificate;
- (b) On the date that temporary closure occurred or is discovered by the department if a temporary closure certificate has not been issued; or
 - (c) On the date change-in-service or permanent closure begins.
- (4) A temporary closure certificate will automatically terminate upon completion of all change-in-service or permanent closure requirements or if the UST system is returned to operational status (OAR 340-150-0167(1)(b)).

UST General Permit Registration, Annual Compliance and Other Fees

- (1) An owner and permittee must pay a general permit registration fee for each tank. This fee must accompany the UST general permit registration application. The registration fee is the same amount as the annual compliance fee listed in section (2) of this rule.
- (2) Each calendar year (January 1 to December 31) following installation, the owner and permittee must pay an annual compliance fee for each UST that has not been permanently decommissioned, for any portion of the year, according to the following schedule:
 - (a) \$25 per tank for the years 1988, 1989, 1990, 1991, 1992 and 1993;
 - (b) \$35 per tank for the years 1994, 1995, 1996 and 1997;
- (c) \$60 per tank for the years 1998, 1999, 2000 and 2001, except that for 1998 and 1999 the fee is \$35 for any permittee that self-certifies its compliance with 1998 technical standards to the department;
 - (d) \$105 per tank for 2002, which includes a \$20 surcharge per tank; and
 - (e) \$85 per tank for the years 2003, 2004 and 2005.
- (3) For multichambered or multicompartmented USTs, the general permit registration fee and annual compliance fee must be paid for each chamber or compartment.
- (4) The department will issue an invoice to each permittee for the annual compliance fees due for each UST facility for each calendar year. The permittee must pay fees by the due date listed on the invoice. A \$35 late fee will be added to the total amount due for each invoice for which payment is not received by the due date. At its discretion, the department may allow the permittee to make alternative arrangements for payment.
- (5) For any UST that was not permitted by May 1, 1988, or that was not permitted before installation during any year thereafter, the owner and permittee must pay the annual compliance fee for each calendar year or part of a calendar year since installation, except that the total amount of fees owed will not be more than \$500 per tank. These fees must be paid before the department will approve a 30-day or 3-day notice to decommission the UST.
- (6) In addition to the general permit registration fee, an owner and permittee must pay a \$400 installation fee for each UST installed. This fee must be included with the general permit registration application.
 - (7) All checks or money orders for fees must be made payable to the Department of Environmental Quality.

340-150-0135

General Requirements for Owners, Permittees and UST System Operators

- (1) The permittee must designate a specific person as the UST system operator. If an UST system operator is not designated, the permittee is the UST system operator.
- (2) The property owner, UST owner and permittee must allow any department employee or authorized representative of the department access to property where an UST is located at any reasonable time to interview persons, inspect equipment and site conditions, collect samples, take still or video pictures, conduct an investigation or review and copy records.
- (3) An owner and permittee of a petroleum UST system subject to this division must continuously comply with the financial responsibility requirements of OAR chapter 340, division 151.
- (4) An owner and permittee must provide information regarding an UST system, UST facility or UST system operator to the department upon request.
 - (5) An owner and permittee must notify the department in writing within 30 days of any of the following:
- (a) A change in contents of an UST as listed on the *operation certificate* from one regulated substance to another (e.g., gasoline to diesel);
 - (b) A change in the name of the contact person for the permittee, if the permittee has not changed;
 - (c) A change in the mailing address or phone number of the property owner, owner or permittee; and
 - (d) A decision by the owner and permittee to place any UST system into temporary closure status.
- (6) Upon receipt of any information submitted in accordance with section (5) of this rule, the department may issue a modified operation certificate or a temporary closure certificate. The \$75 registration certificate modification fee is not applicable unless these changes are reported to the department at the same time as a change specified under OAR 340-150-0052.
- (7) An owner and permittee of an UST system subject to this division must also comply with the following release reporting, site investigation and corrective action requirements:
 - (a) OAR 340-122-0205 through 340-122-0360 for petroleum USTs.
- (b) OAR 340-122-0010 through 340-122-0115 for USTs containing nonpetroleum regulated substances, except that any releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (8) An owner and permittee of any UST system used solely to contain fuel for emergency power generators must comply with all provisions of this division, except for the release detection requirements of OAR 340-150-0400 through 340-150-

0470 and the training and emergency response information requirements of 340-150-0200.

- (9) In addition to any other requirements of this division, an owner and permittee must decommission any UST system that does not meet the requirements of this division in accordance with the general permit registration requirements for permanent closure (OAR 340-150-0166 or 340-150-0168).
- (10) Any notification made to the department by an owner and permittee may be made in writing sent by U.S. mail, electronic mail, facsimile or verbally by telephone provided it is received by the department by the required due date, unless otherwise specified by rule.

340-150-0140

Requirements for Sellers of USTs

- (1) Any person who sells an UST must notify a proposed new owner and permittee in writing of the requirements for applying for a modified general permit operation certificate (OAR 340-150-0052) or a general permit installation certificate (340-150-0020).
- (2) A former owner and permittee must transfer all documentation pertaining to the UST system to a new owner and permittee.

340-150-0150

Depositing Regulated Substances in USTs

- (1) A person may not deposit or cause to be deposited a regulated substance into an UST unless the owner and permittee of the UST facility have a current operation certificate for the tank.
- (2) Before arranging delivery of a regulated substance, an owner and permittee must provide the *operation certificate* number and the identification number for each UST to any person depositing a regulated substance into the UST.
- (3) If a general permit registration certificate is revoked, suspended or terminated, an owner and permittee must provide written notice of the change in status to any person who previously deposited a regulated substance into the UST. A copy of the notice must be provided to the department.

340-150-0152

Requirements for Distributors of Regulated Substances for Deposit into USTs

- (1) In addition to the requirements of OAR 340-150-0150(1), a distributor must obtain and maintain a written record of operation certificate numbers for every UST facility and the identification number for each UST into which it delivers a regulated substance.
- (2) Upon request by the department, a distributor must provide a written record of all USTs into which it deposited a, regulated substance during the past three years, regardless of whether the UST is regulated by the department. The list must include, but is not limited to, customer name delivery address, operation certificate number (as applicable), UST identification number and the type of regulated substance delivered.

340-150-0156

Performance of UST Services by Owners or Permittees

- (1) An owner and permittee may perform UST services on their own UST if the following conditions are met:
- (a) Before starting any UST services, an owner and permittee must complete the appropriate UST supervisor examination administered by a national service with a passing score for the specific UST service they propose to provide; except
- (b) If the UST system equipment for corrosion protection, release detection or tightness testing has been specifically designed by the manufacturer to allow testing to be performed by a tank owner, permittee or UST system operator, an owner and permittee is not required to complete the UST supervisor test for cathodic protection or tank tightness testing.
 - (2) Before conducting any UST services allowed under section (1) of this rule, an owner and permittee must:
 - (a) Notify the department of their intent to perform UST services; and
- (b) Submit a copy of the examination documentation provided by the national service company to the department for any UST services requiring examination under subsection (1)(a) of this rule.
- (3) In addition to the requirements of this division, an owner and permittee performing work on their own UST must comply with all applicable requirements for service providers and supervisors in accordance with OAR chapter 340, division 160, except the department will waive the requirement to obtain a license and pay license fees.

340-150-0160

General Permit Requirements for Installing an UST System

- (1) To maintain compliance with a general permit installation certificate, the permittee must:
- (a) Install all UST system components and ancillary equipment in accordance with the following performance standards and requirements:

- (A) For installation of USTs and underground piping, OAR 340-150-0300 and 340-150-0302;
- (B) For spill and overfill protection, OAR 340-150-0310;
- (C) For corrosion protection, OAR 340-150-0320 and 340-150-0325; and
- (D) For release detection, OAR 340-150-0400 through 340-150-0470.
- (b) Allow the department access to the UST facility and records (OAR 340-150-0135(2));
- (c) Provide information to the department upon request and submit information regarding UST system or UST facility changes (OAR 340-150-0135(4) and (5));
 - (d) Comply with all installation notification and written report requirements (OAR 340-150-0300); and
- (e) Not allow any person other than a service provider or supervisor licensed by the department to perform UST installation services, except as provided by OAR 340-150-0156.
- (2) Notwithstanding OAR 340-150-0150(1), the department may, at its discretion, approve the deposit of a regulated substance into the UST before the issuance of an *operation certificate* on a case by case basis. Dispensing of a regulated substance from the UST is strictly prohibited. Following approval by the department, the permittee must:
- (a) Provide the distributor of the regulated substance with the *installation certificate* number and UST identification number for each tank, including an explanation that the certificate number will be superseded by an *operation certificate* number (OAR 340-150-0150(2));
- (b) Report, investigate and perform corrective action for any confirmed release that may occur after delivery of a regulated substance (OAR 340-150-0135(7)); and
- (c) Provide proof of compliance with the financial responsibility requirements of OAR chapter 340, division 151 to the department before accepting delivery of petroleum (OAR 340-150-0135(3)).
- (3) The UST system installation will be considered complete upon final review and approval by the department of the completed installation checklist and certification of compliance signed by the owner, permittee and service provider (i.e., the tank installer) as required by OAR 340-150-0300(8). An operation certificate will be issued to the permittee once the installation has been approved by the department.
 - (4) The installation certificate automatically expires upon issuance of an operation certificate (OAR 340-150-0102(2)).

General Permit Requirements for Operating an UST System

- (1) An operation certificate will be issued to the permittee upon approval by the department of the UST installation and receipt of proof of compliance with the financial responsibility requirements of OAR chapter 340, division 151 for petroleum USTs. Delivery and deposit of a regulated substance is allowed under the operation certificate, once the permittee has provided the distributor with the operation certificate number and UST identification number for each tank.
- (2) To maintain compliance with the general permit operation certificate, the permittee must operate and maintain the UST system in accordance with the following performance standards and requirements:
 - (a) Prevent spills and overfills (OAR 340-150-0310);
- (b) Maintain corrosion protection, including testing, record keeping and reporting of test failures (OAR 340-150-0320 and 340-150-0325);
- (c) Perform release detection for USTs and underground piping, including monitoring, testing and record keeping (OAR 340-150-0400 through 340-150-0470);
 - (d) Periodically inspect internally lined USTs and report to the department any inspection failures (OAR 340-150-0360);
- (e) Report to the department any suspected release of regulated substances within 24 hours (OAR 340-150-0500) and investigate suspected releases within seven days (340-150-0510);
- (f) Report to the department any spills, overfills or confirmed releases within 24 hours and investigate or take corrective action as required by:
 - (A) OAR 340-122-0205 through 340-122-0360 for petroleum USTs.
- (B) OAR 340-122-0010 through 340-122-0115 for USTs containing nonpetroleum regulated substances, except that releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (g) Repair, modify or replace UST system components as necessary to correct, detect or prevent releases (OAR 340-150-0350 through 340-150-0354);
- (h) Continuously maintain a financial responsibility mechanism for petroleum UST systems (OAR chapter 340, division 151);
 - (i) Allow the department access to the UST facility and records (OAR 340-150-0135(2));
- (j) Provide information to the department upon request and submit information regarding UST system or UST facility changes (OAR 340-150-0135(4) and (5));
 - (k) Pay all annual compliance fee invoices by the specified due date or be subject to late fees (OAR 340-150-0110);
- (1) Report to the department any change in ownership of the property, tank or designated permittee (OAR 340-150-0052). Failure to submit a request for modification is cause for automatic termination of the operation certificate (OAR 340-150-0052).

0102(1)); and

- (m) Not allow any person other than a service provider or supervisor licensed by the department to perform UST services, except as provided by OAR 340-150-0156.
- (3) The permittee must have a designated UST system operator and comply with the training requirements of OAR 340-150-0200 after the required date.
- (4) The permittee may not operate an UST that does not meet the conditions and requirements of the *operation certificate* and all other applicable rules and statutes. The permittee must:
 - (a) Immediately take all actions necessary to bring the UST system into compliance; or
- (b) Submit a 30-day notice of permanent closure to the department and immediately begin to manage the UST system in compliance with the conditions and requirements of a general permit for permanent closure in accordance with OAR 340-150-0166 or 340-150-0168.
- (5) When an UST system will no longer be operated due to proposed change-in-service, temporary or permanent closure, the permittee must notify the department of the proposal in writing 30 days in advance of the change.
- (6) The operation certificate for an UST will terminate upon issuance of a temporary closure certificate or when temporary closure, change-in-service or permanent closure begins (OAR 340-150-0102(3)).

340-150-0166

General Permit Requirements for Closure of an UST System by Change-in-Service

- (1) A permittee may continue to use an UST system to store a nonregulated substance without removal of the tank (i.e., change-in-service). An UST or any underground piping that has held a regulated substance may not be used under any circumstances to store water for consumption by humans or livestock or for the watering of feed crops.
- (2) At least 30 days before beginning the change-in-service, the permittee must submit an application for a change-in-service general permit to the department. The department may allow a shorter notice period on a case by case basis. In addition to general information about the UST facility, tank ownership and UST system, the application must include:
 - (a) Information about the proposed use of the UST system;
 - (b) A written site assessment plan that meets the requirements of OAR 340-150-0180; and
 - (c) Any other information the department may require.
- (3) After approval of the site assessment plan by the department and at least three working days before beginning the change-in-service, the permittee must notify the department of the <u>confirmed date and time</u> the change-in-service will begin to allow observation by the department.
- (4) A general permit registration certificate will not be issued. The permittee must, however, comply with the requirements of the general permit for decommissioning by change-in-service. In addition to all other requirements of this rule, the permittee must:
- (a) Report to the department any spills, overfills or confirmed releases within 24 hours and investigate or take corrective action as required by:
 - (A) OAR 340-122-0205 through 340-122-0360 for petroleum USTs.
- (B) OAR 340-122-0010 through 340-122-0115 for USTs containing nonpetroleum regulated substances, except that releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (b) Continuously maintain a financial responsibility mechanism for petroleum UST systems required by OAR chapter 340, division 151, until the department has determined that the change-in-service is complete;
 - (c) Allow the department access to the UST facility and records (OAR 340-150-0135(2));
- (d) Provide information to the department upon request and submit information regarding UST system or UST facility changes (OAR 340-150-0135(4) and (5));
 - (e) Pay all annual compliance fee invoices by the specified due date or be subject to late fees (OAR 340-150-0110); and
- (f) Not allow any person other than a service provider and supervisor licensed by the department to perform UST services, except as provided by OAR 340-150-0156.
- (5) The permittee must empty the UST system and clean it by removing all liquids and accumulated sludge. The removed materials must be recycled or disposed of in accordance with all federal, state and local requirements. One or more of the following cleaning and closure procedures must be used:
 - (a) American Petroleum Institute RP 1604, "Closure of Underground Petroleum Storage Tanks" (1996);
 - (b) American Petroleum Institute Publication 2015, "Cleaning Petroleum Storage Tanks" (2001);
- (c) American Petroleum Institute RP 1631 (2001), "Interior Lining of Underground Storage Tanks" (contains guidance information); or
- (d) The National Institute for Occupational Safety and Health "Criteria for a Recommended Standard: Working in Confined Space" (Publication No. 80-106, December 1979) (guidance for conducting safe closure procedures at some hazardous substance USTs).
 - (6) Within 30 days of completion of the field work or other period approved by the department, the permittee must

complete and submit a change-in-service checklist and site assessment report (OAR 340-150-0180(7)) signed by the owner, permittee and service provider to the department.

- (7) The UST system change-in-service will be considered complete upon final review and approval by the department of the completed change-in-service checklist and site assessment report. The department will provide a letter to the permittee indicating that the change-in-service has been completed.
- (8) The permittee must maintain records of change-in-service, including the site assessment report and associated documents, for three years after the change-in-service checklist and report have been approved by the department. If the UST facility is sold within this time period the permittee must provide these records to the new property owner (OAR 340-150-0140).

340-150-0167

General Permit Requirements for Temporary Closure of an UST System

- (1) The department will issue a temporary closure certificate to the permittee upon receipt of the required notice in accordance with OAR 340-150-0135(5)(d). This certificate will expire one year from the date of issuance. Thirty days before the expiration date, the permittee must submit one of the following to the department:
 - (a) An application for a change-in-service (OAR 340-150-0166) or permanent closure (340-150-0168) general permit;
 - (b) A written request to return the UST system to operational status; or
 - (c) A request for an extension of the expiration date of the temporary closure certificate.
- (A) If the department approves the request for extension, the expiration period will be extended to a date determined by the department and a revised temporary closure certificate will be issued to the permittee.
- (B) If the department denies the request, the permittee must decommission the UST system by permanent closure or change-in-service by the date established by the department. The department will notify the permittee of the denial in writing and include the reasons the request was denied.
 - (2) To maintain compliance with the general permit temporary closure certificate, the permittee must:
- (a) Cap and secure all lines, pumps, access-ways and ancillary equipment, except the vent lines, if the UST system is temporarily closed for three months or more;
- (b) Report suspected releases of regulated substances to the department within 24 hours (OAR 340-150-0500) and investigate suspected releases within seven days (340-150-0510);
- (c) Report to the department any confirmed releases within 24 hours and investigate or take corrective action as required by:
 - (A) OAR 340-122-0205 through 340-122-0360 for petroleum USTs.
- (B) OAR 340-122-0010 through 340-122-0115 for USTs containing nonpetroleum regulated substances, except that releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (d) Continuously maintain a financial responsibility mechanism for petroleum UST systems (OAR chapter 340, division 151);
 - (e) Allow the department access to the UST facility and records (OAR 340-150-0135(2));
- (f) Provide information to the department upon request and submit information regarding UST system or UST facility changes (OAR 340-150-0135(4) and (5));
 - (g) Pay all annual compliance fee invoices by the specified due date or be subject to late fees (OAR 340-150-0110);
- (h) Report to the department any change in ownership of property or tank or designated permittee (OAR 340-150-0052); and
- (i) Not allow any person other than a service provider or supervisor licensed by the department to perform UST services, except as provided by OAR 340-150-0156.
- (3) If the UST is empty of all regulated substances, the permittee must comply with the requirements of section (2) of this rule and must submit documentation to the department that the tank was emptied and that the removed regulated substance and sludge was recycled or disposed of in accordance with state, federal and local regulations. This documentation must be submitted with the notice provided to the department (OAR 340-150-0135(5)(d)) or within 30 days after the tank has been emptied.
- (4) If the UST is not empty, the permittee must comply with the requirements of section (2) of this rule and perform release detection for USTs and underground piping, including monitoring, testing and record keeping in accordance with OAR 340-150-0400 through 340-150-0470.
- (a) If the UST and underground piping are metal, the permittee must operate, test and maintain equipment and keep records for corrosion protection in accordance with OAR 340-150-0320 and 340-150-0325.
 - (b) If the UST is lined, the permittee must periodically inspect the lining in accordance with OAR 340-150-0360.
- (c) When necessary to correct, detect or prevent releases, the permittee must repair, modify or replace UST system components (OAR 340-150-0350 through 340-150-0354).
 - (5) The permittee must maintain all records related to the temporary closure for three years after a change-in-service or

permanent closure checklist and site assessment report have been approved by the department. If the UST facility is sold within this time period, the permittee must provide these records to the new property owner (OAR 340-150-0140).

340-150-0168

General Permit Requirements for Decommissioning an UST System by Permanent Closure

- (1) At least 30 days before beginning permanent closure, the permittee must submit an application for a permanent closure general permit to the department. The department may allow a shorter notice period on a case by case basis.
- (2) If the permittee is proposing to permanently close the UST in-place and fill it with an inert material or if the UST contains a hazardous substance other than petroleum, the application must include a written site assessment plan that meets the requirements of OAR 340-150-0180. Permanent closure cannot begin until the department approves the site assessment plan.
- (3) At least three working days before beginning permanent closure, the permittee must notify the department of the confirmed date and time permanent closure will begin to allow observation by the department.
- (4) The permittee must empty the UST system and clean it by removing all liquids and accumulated sludge. The removed materials must be recycled or disposed of in accordance with all federal, state and local requirements. One or more of the following cleaning and closure procedures must be used:
 - (a) American Petroleum Institute RP 1604, "Closure of Underground Petroleum Storage Tanks" (1996);
 - (b) American Petroleum Institute Publication 2015, "Cleaning Petroleum Storage Tanks" (2001);
- (c) American Petroleum Institute RP 1631, "Interior Lining of Underground Storage Tanks" (2001) (contains guidance information); or
- (d) The National Institute for Occupational Safety and Health (NIOSH) "Criteria for a Recommended Standard: Working in Confined Space" (Publication No. 80-106, December 1979) (guidance for conducting safe closure procedures at some hazardous substance USTs).
- (5) The permittee must perform a site assessment that meets the requirements of OAR 340-150-0180 after the UST system and all ancillary equipment have been removed from the tank pit. If the UST is closed in-place, the site assessment must be conducted in accordance with the approved site assessment plan. If any equipment (i.e., tanks or piping) are to be disposed of instead of recycled, the permittee must first have the disposal location approved by the department.
- (6) Within 30 days of completion of the field work or other period approved by the department, the permittee must complete and submit to the department a permanent closure checklist and site assessment report (OAR 340-150-0180) signed by the owner, permittee and service provider.
- (7) A general permit registration certificate will not be issued to the permittee. However, the permittee must comply with the requirements of this general permit for permanent closure. In addition to all other requirements of this rule, the permittee must:
- (a) Report to the department any spills or confirmed releases within 24 hours and investigate or take corrective action as required by:
 - (A) OAR 340-122-0205 through 340-122-0360 for petroleum USTs.
- (B) OAR 340-122-0010 through 340-122-0115 for USTs containing nonpetroleum regulated substances, except that releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (b) Continuously maintain a financial responsibility mechanism for petroleum UST systems (OAR chapter 340, division 151);
 - (c) Allow the department access to the UST facility and records (OAR 340-150-0135(2));
- (d) Provide information to the department upon request and submit information regarding UST system or UST facility changes (OAR 340-150-0135(4) and (5));
 - (e) Pay all annual compliance fee invoices by the specified due date or be subject to late fees (OAR 340-150-0110); and
- (f) Not allow any person other than a service provider and supervisor licensed by the department to perform UST services, except as provided by OAR 340-150-0156.
- (8) The UST system permanent closure will be considered complete upon approval by the department of the completed permanent closure checklist and site assessment report (OAR 340-150-0180). The department will provide a letter to the permanent closure has been completed.
- (9) The permittee must maintain records of permanent closure, including the site assessment report and associated documents, for three years after the permanent closure checklist and report have been approved. If the UST facility is sold within this time period the permittee must provide these records to the new property owner (OAR 340-150-0140).

340-150-0180

Site Assessment Requirements for Permanent Closure or Change-In-Service

(1) Before a change-in-service (OAR 340-150-0166) or permanent closure (340-150-0168) is completed, an owner and permittee must complete a site assessment to measure for the presence of a release where contamination is most likely to be

present at the UST facility and submit results of the assessment to the department. In selecting sample types, sample locations and measurement methods, an owner and permittee must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to groundwater and other factors appropriate for identifying the presence of a release.

- (2) For USTs containing petroleum, the owner and permittee must measure for the presence of a release by following the sampling and analytical procedures specified in OAR 340-122-0205 through 340-122-0360 and section (4) of this rule.
- (3) For USTs containing regulated substances other than petroleum (including waste oil tanks), petroleum USTs to be closed in-place and USTs to undergo a change-in-service, an owner and permittee must submit a written site assessment plan (i.e., sampling plan) to the department and receive department approval before beginning permanent closure or change-in-service. The plan must include the following information:
 - (a) A site diagram, drawn to scale, that identifies:
 - (A) The location of all USTs and underground piping, dispenser islands, buildings and nearby properties;
 - (B) All surface water bodies within ¼ mile of the UST facility;
 - (C) Any potential conduits for spreading contamination that may exist (e.g., water or sewer lines); and
 - (D) All proposed sample locations, clearly marked.
 - (b) A list of analytical procedures and sample collection methods to be used;
 - (c) General information about the sample collector and UST facility;
 - (d) The location of all proposed sampling points that meet the requirements of section (4) of this rule; and
 - (e) Any other information as specified by the department.
- (4) Unless otherwise directed or approved by the department, an owner and permittee must meet the following requirements for sampling and analysis:
- (a) Soil samples must be collected from the native soils located no more than two feet beneath the bottom of the tank pit in areas where contamination is most likely to be found;
- (b) For in-place closure or change-in-service of an UST, a minimum of four soil samples must be collected, one each from beneath both ends of the tank and on each side;
- (c) For the removal of a single tank, two to four soil samples must be collected as appropriate based on site conditions, including the condition of the removed tank;
- (d) For the removal of multiple USTs from the same pit, in addition to subsection (c) of this section, one soil sample must be collected for each 100 square feet of area in the pit from areas where contamination is most likely to be found;
 - (e) For underground piping or where piping runs were located in the past:
- (A) A minimum of two soil samples must be collected from the native soils directly beneath the areas where contamination is most likely to be found; and
- (B) For piping runs of more than 20 feet in length, beginning at the dispensers, at least one additional soil sample must be collected at each 20-foot interval;
 - (f) For dispensers, at least one soil sample must be collected from the native soils directly beneath each dispenser;
- (g) For UST components (e.g., underground piping or dispensers) located directly above an area to be excavated, the area must be visually assessed before excavation work is conducted and soil samples collected if contamination is observed or suspected:
- (h) All soil samples must be analyzed by the Northwest Total petroleum Hydrocarbon Identification Analytical Method (NWTPH-HCID, DEQ, December 1996) specified in OAR 340-122-0218(1)(d)(A) to determine if a confirmed petroleum release exists; and
- (i) If water is present in the UST pit, regardless of whether obvious contamination is present, the department must be notified within 24 hours of discovery.
 - (5) The guidance contained in Appendix K of this division may be used to comply with sections (3) and (4) of this rule.
- (6) An owner and permittee must report a confirmed release to the department within 24 hours of observance or receipt of analytical results. Upon discovery of a release, an owner and permittee must:
- (a) Immediately initiate corrective action. An owner and permittee may request and the department may approve a specific time schedule to initiate corrective action on a case by case basis depending on the severity of the contamination or other relevant factors; and
- (b) Follow the requirements of OAR 340-122-0225 for "Initial Abatement and Site Check" and 340-122-0235 for "Free Product Removal" as appropriate.
- (7) An owner and permittee must submit a written report of the results of the site assessment to the department within 30 days of completion of the field work or other period approved by the department.

340-150-0200

Training Requirements for UST System Operators and Emergency Response Information

(1) The owner and permittee of each UST facility issued an operation certificate by the department that dispenses a regulated substance from an UST to a motor vehicle or container must employ trained personnel who can properly operate

and maintain the UST system and must provide emergency response information to any person that dispenses a regulated substance from the UST system.

- (2) <u>UST system operator</u>. An owner and permittee must require that the designated UST system operator complete training that meets the following requirements:
- (a) An individual designated as the UST system operator before February 1, 2004, must complete one of the training options in section (4) of this rule by that date.
- (b) An individual designated as the UST system operator after February 1, 2004, must complete training within 90 days of designation, unless the individual has previously completed a training option and a copy of the training documentation is maintained at the UST facility.
- (c) The department may extend the initial training compliance date beyond February 1, 2004, if the department determines that there are an insufficient number of training options available.
 - (3) Elements of required training.
- (a) All training options must include the essential training elements listed in Appendix L of this division and as further described in an UST system operator training manual developed by the department; and
- (b) The department may periodically audit or review any of the training options to verify that the training follows the department's training manual.
 - (4) Training options. The UST system operator must either:
- (a) Attend a training session sponsored by a training vendor listed by the department. A training vendor is a person, company or organization listed by the department that has agreed to present UST system operator training using the training manual developed by the department;
- (b) Successfully pass an examination designed for UST system operators offered by a national service and approved by the department;
 - (c) Complete an internet or computer software training or examination program approved by the department; or
 - (d) Complete any other equivalent training method approved by the department.
- (5) <u>Documentation and record keeping</u>. An owner and permittee must submit verification of UST system operator training completion to the department by March 1, 2004.
- (a) Verification may include a copy of the certificate of training completion signed by the UST system operator along with any examination results or a list of persons who attend a training session as submitted by the training vendor. The list must include: the UST system operator's name and signature; the date training was completed; and the name, site address and the department's UST facility identification number for the UST facility that the UST system operator serves. The list must also include a confirmation statement by the training vendor that the training session was conducted using the department's UST system operator training manual.
- (b) An owner and permittee must permanently retain each certificate of completion signed by the UST system operator on file at the UST facility, including a copy of any examination results. If training records are not kept at the UST facility, an owner and permittee must have the records available for review by the department upon request.
- (6) Exemption or deferral from training. The department may exempt an owner and permittee from the training requirements for an UST system operator if an owner and permittee demonstrates to the department's satisfaction that a hardship condition exists. Additionally, the department may defer the compliance date for UST system operator training to an alternate date on a case-by-case basis for an owner and permittee who meets the requirements of this section.
- (a) To be considered for an UST system operator hardship exemption or deferral, an owner and permittee must demonstrate that the following conditions exist:
 - (A) The owner and permittee are the same person and owns only one UST facility;
- (B) The permittee is both the UST system operator and the only person regularly on site who can operate the UST system equipment; and
- (C) The permittee has been unable to locate another person to operate the UST facility for the permittee for a scheduled training session date or for the amount of time needed to complete a training option.
- (b) The permittee must submit a written request for a hardship exemption or deferral to the department. The request must include the following information:
 - (A) A brief description of how the permittee meets the requirements under subsection (a) of this section; and
- (B) A list of available training options and other possible solutions explored by the permittee together with an explanation why none of these alternatives are feasible.
- (c) The department will review exemption and deferral requests within 60 days of receipt of the completed request. Upon approval by the department, the permittee must review the training manual developed by the department and sign an affidavit stating that the permittee has read and understands the UST operation and maintenance requirements. The permittee must submit the affidavit to the department by March 1, 2004, or other date designated by the department.
- (d) The permittee must keep a copy of all records pertaining to approval of a hardship exemption or deferral, including the signed affidavit; records must be kept permanently at the UST facility. If records are not kept at the UST facility, the

permittee must have the records available for review by the department upon request; and

- (e) UST facilities where the permittee has been granted a hardship exemption will be placed on a priority list for technical assistance and inspection by the department.
- (7) Emergency response information. In addition to the requirements of sections (1) through (6) of this rule, an owner and permittee must provide information about emergency response procedures, including, but not limited to, procedures for overfill protection during delivery of regulated substances, operation of emergency shut off system and alarm response, release reporting and any site specific emergency procedures. The information must include any emergency response requirements made necessary by site specific human health and safety issues or the presence of environmentally sensitive areas, such as nearby streams, wetlands or potential conduits for spreading contamination. The emergency response information must be provided by:
 - (a) Written instructions that are provided to any person who dispenses a regulated substance at the UST facility;
- (b) Signage posted in prominent areas of the UST facility that is easily visible to any person dispensing a regulated substance; or
 - (c) A combination of both subsections (a) and (b) of this section.

340-150-0250

Expedited Enforcement Process

- (1) Nothing in this rule shall affect the department's use of OAR chapter 340, division 12 "Enforcement Procedures and Civil Penalties" for compliance with the UST regulations, except as specifically noted. The field penalty amounts assigned in section (4) of this rule are only applicable to actions taken by the department under this rule. Nothing in this rule requires the department to assess any particular penalty amount for any particular violation.
 - (2) An owner and permittee is excluded from participation in the expedited enforcement process if:
- (a) The total field penalty amount for all violations identified during a single inspection or file review would exceed \$300:
 - (b) The department documents one or more class I violation, as defined in OAR 340-012-0067(1);
- (c) The department has issued a field penalty or civil penalty to the owner or permittee for the same violation at the same UST facility within the previous three years; or
- (d) At its discretion, the department determines that an owner and permittee is not eligible for the expedited process. This determination will be done on a case by case basis. [One example may be when an owner and permittee of multiple UST facilities has received multiple field citations for the same or similar violations, but has not made corrections at all facilities.]
- (3) For any owner and permittee with documented violations or conditions that exclude participation in the expedited enforcement process of this rule, the department will take appropriate enforcement action in accordance with OAR chapter 340, division 12.
- (4) Each class II UST violation listed in OAR 340-012-0067(2) is assigned a field penalty amount of \$50, except for class II violations meeting the following circumstances, which are assigned a field penalty amount of \$75:
- (a) Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods by using a release detection method that does not have third party evaluation and approval;
- (b) Use of a method or methods of release detection as the primary release detection method after the period allowed for such use by rule has expired;
- (c) Failure to conduct required release detection monitoring and testing activities for USTs or piping by not monitoring or testing for the presence of a release every 30 days or daily as required;
- (d) Failure to conduct the required release detection monitoring and testing activities for USTs by not performing a tank tightness test in accordance with required schedule for a release detection method or as necessary for confirmation of a suspected release;
- (e) Failure to conduct required release detection monitoring and testing activities for USTs or piping by failing to ensure that groundwater and vapor monitoring release detection systems are functioning properly to detect a release from all portions of the system that contain a regulated substance;
- (f) Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods or equipment by using the manual tank gauging release detection method for an UST larger than 2,000 gallons capacity;
- (g) Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods or equipment by not having a line leak detection device that is operational or able to detect a leak in underground piping;
- (h) Failure to conduct required corrosion protection monitoring and testing activities for USTs or piping by not conducting an inspection after the first six months of operation or subsequent tests according to schedule;
- (i) Failure to conduct required corrosion protection monitoring and testing activities for USTs or piping by not conducting an initial tank integrity inspection or periodic internal lining inspections;

- (j) Failure to have an operating certificate for all compartments or chambers of a multichambered or multicompartment UST when at least one compartment or chamber has an operating certificate;
- (k) Failure to apply for a modified operation certificate when a change in tank ownership, permittee or property owner has occurred;
 - (1) Failure to provide complete documentation to demonstrate financial responsibility coverage; and
 - (m) Failure to have a trained UST system operator for an UST facility by February 1, 2004.
- (5) Each class III violation listed in OAR 340-012-0067(3) is assigned a field penalty amount of \$50 when an owner or permittee has received prior notice of the violation through a field citation and has not corrected the violation. Any violation of UST rules that also violates a final order incorporated into a field citation may be excluded from the expedited process at the department's discretion.
- (6) An owner or permittee issued a field citation has 30 calendar days from the date of issuance to submit payment for the total field penalty amount. Payment is deemed submitted when received by the department. A check or money order in the amount of the field penalty must be submitted to: Department of Environmental Quality Business Office, 811 SW Sixth Avenue, Portland, OR 97204. Participation in the expedited enforcement process is voluntary -- by submitting payment, the owner and permittee agree to accept the field citation as the final order by the commission and to waive any right to an appeal or any other judicial review of the determination of violation, compliance schedule or assessment of the field penalty in the field citation.

Installation of USTs and Piping

- (1) An owner and permittee must have an *installation certificate* issued by the department before beginning installation of the UST (OAR 340-150-0160). The requirements and procedures for applying for an UST *installation certificate* are described in OAR 340-150-0020.
- (2) An owner and permittee must install USTs and underground piping in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions. The codes and standards listed in *Appendix A* of this division may be used to comply with the requirements of this rule.
- (3) An owner and permittee must install USTs and underground piping that are made of or lined with materials that are compatible with the substance stored in the UST system. An owner and permittee storing alcohol blends may use the codes listed in *Appendix B* of this division to comply with the requirements of this section of the rule.
 - (4) An owner and permittee may only install UST systems that meet the following performance standards:
 - (a) Spill and overfill prevention equipment and requirements (OAR 340-150-0310);
 - (b) Corrosion protection performance standards for USTs and underground piping (OAR 340-150-0320); and
 - (c) Release detection performance standards (OAR 340-150-0400 through 340-150-0470).
- (5) The person installing the UST system must be licensed by the department to perform UST services (OAR chapter 340, division 160), except as provided by OAR 340-150-0156.
- (6) At least 30 days before beginning the UST system installation, an owner and permittee must provide notice to the department on an application provided by the department. The department may allow a shorter notice period on a case by case basis.
- (7) At least three working days before beginning UST installation, an owner and permittee must notify the department of the <u>confirmed date and time</u> the installation will begin. The department may request additional prior notifications of the start date and time of specific installation or related testing activities.
- (8) An owner and permittee must complete an installation checklist on a form provided by the department and submit the checklist to the department before an *installation certificate* can be issued. The checklist requires information about installation procedures and standards used, including any observations made by a service provider during the installation of the UST system. The checklist must include:
- (a) A certification of compliance signed by the owner, permittee and service provider (i.e., the tank installer) that certifies the UST system was installed in accordance with required methods and standards and in compliance with requirements for cathodic protection, release detection and spill and overfill protection and that the owner and permittee will meet requirements for financial responsibility;
- (b) One copy of the as-built drawing for the UST facility that includes the locations of all USTs, underground piping and ancillary equipment;
 - (c) A list of major UST components installed;
- (d) All manufacturer specifications, completed checklist or other installation documents for USTs and components, including warranties;
 - (e) A copy of third party evaluation approval summaries, as applicable to any release detection equipment or methods;
 - (f) A copy of approval documents (sign-off or pressure test results) provided by the state fire marshal or local fire

department, if available; and

- (g) Photographs (or color copies of photographs) of key phases of the installation, including, but not limited to, major equipment (i.e., USTs and underground piping) and materials to be used in the installation, the excavation area before placement of USTs or underground piping, installation area after the placement of USTs and underground piping, but before backfilling and any other items of interest that document the installation process. Videos, negatives, floppy disks, undeveloped film, etc. are not acceptable substitutes for standard color photographs.
- (9) An operation certificate will be issued to the permittee in accordance with OAR 340-150-0163(1) after department review and approval of the completed installation checklist and all required documentation.

[Note 1: USTs and underground piping must be installed to meet all requirements of the Oregon Uniform Fire Code pertaining to USTs in accordance with OAR chapter 837, division 40 "Fire and Life Safety Regulations" (Department of Oregon State Police, Office of State Fire Marshal).]

[Note 2: Appendix J of this division includes a list of additional guidance documents that owners and permittees may find useful.]

340-150-0302

Installation of Used USTs

- (1) An owner and permittee may not reuse an UST that has been installed in the ground and subsequently removed unless the UST was decommissioned in accordance with all requirements of OAR 340-150-0168.
- (2) The original manufacturer must certify that the used UST meets the UST performance requirements of OAR 340-150-0300. If the original manufacturer is not available (e.g., no longer in business, unknown, etc.) another manufacturer of the same tank brand or type must certify in writing that the UST meets the current UST performance requirements.
- (3) Before reinstalling the UST, an owner and permittee must have the manufacturer's recertification documented in writing and available to the department upon request.
- (4) An owner and permittee must install the UST in accordance with OAR 340-150-0300 and follow all recommendations made by the manufacturer for reinstalling the used UST.
- (5) An owner and permittee must submit documents showing compliance with all manufacturer recommendations including, but not limited to, warranty cards or manufacturers' checklists to the department as an attachment to the installation checklist required by OAR 340-150-0300(8)(d).

340-150-0310

Spill and Overfill Prevention Equipment and Requirements

- (1) An owner and permittee must install, operate and maintain spill prevention equipment, such as a spill catchment basin or spill bucket, that will prevent the release of a regulated substance to the environment when the transfer hose is detached from the fill pipe.
- (2) An owner and permittee must install, operate and maintain overfill prevention equipment and follow fill procedures that prevent any of the fittings located on top of the UST from being exposed to a regulated substance due to overfilling, and:
 - (a) Automatically shuts off flow into the UST when the UST is no more than 95 percent full; or
- (b) Alerts the person depositing the regulated substance into the UST when the UST is no more than 90 percent full by restricting the flow into the tank or by triggering a high level alarm.
- (3) For all UST systems installed or overfill equipment replaced on or after March 1, 2003, an owner and permittee must be able to provide visual verification that the overfill equipment functions as required by section (2) of this rule. For overfill equipment installed before March 1, 2003, an owner and permittee must be able to demonstrate to the department that the equipment is functions properly by any method deemed acceptable by the department.
 - (4) In addition to the overfill requirements of section (2) of this rule, an owner and permittee must:
- (a) Measure the volume of regulated substance in each UST to confirm that the volume available is greater than the volume of the regulated substance to be deposited into the UST before each deposit is made; and
- (b) Develop and implement procedures to ensure that each deposit of a regulated substance into the UST is monitored constantly to prevent overfilling and spilling.
- (5) An owner and permittee may use the codes and procedures listed in Appendix C of this division to comply with the requirements of this rule.
- (6) Spill and overfill prevention equipment is not required if the UST system is filled by deposits of a regulated substance of no more than 25 gallons at one time (a waste oil tank may be one example).

Corrosion Protection Performance Standards for USTs and Piping

- (1) An owner and permittee must protect all USTs (whether of single wall or multiwall construction) and underground piping that routinely contains a regulated substance from corrosion by one of the methods listed in sections (2) through (4) of this rule.
- (2) For USTs and underground piping constructed of fiberglass-reinforced plastic or other nonmetallic materials, an owner and permittee must use one of the codes and standards listed in *Appendices D1-USTs* and *D2-Piping* of this division to comply with this section of the rule.
- (3) An owner and permittee must provide cathodic protection for USTs and underground piping constructed of steel or other metal to prevent corrosion by using the codes and standards listed in *Appendices E1-USTs* and *E2-Piping* of this division to comply with this section of the rule. In addition, an owner and permittee must comply with subsections (a) through (c) and either (d) or (e) of this section:
 - (a) The UST and underground piping must be coated with a suitable dielectric material;
 - (b) Field-installed cathodic protection systems must be designed by a corrosion expert;
- (c) Impressed current systems must be designed to allow the testing of current operating status as required by OAR 340-150-0325(3); and
 - (d) A permanent cathodic protection test station must be installed. The test station:
- (A) Can be separate or combined with an existing box and must be located near the protected structure (e.g., UST, piping, etc.) and away from an anode;
- (B) Must provide, at a minimum, an electrical connection to the structure and access for placing a reference cell in contact with the soil or backfill; and
- (C). When located below the surface of the ground, the test station design must prevent run off of surface water into the soil; or
- (e) If a permanent cathodic protection test station is not installed, an owner and permittee must have a written cathodic protection test procedure that has been developed in accordance with a nationally accepted code of practice. The written test procedure must:
 - (A) Meet each of the minimum requirements established by subsection (d) of this section;
- (B) Contain sufficient detail to ensure that initial test conditions can be replicated during each test (i.e., electrical connections are made at the same points and the reference electrode contacts the soil at the same location);
 - (C) Be followed for all cathodic protection tests at the UST facility; and
 - (D) Be provided to the department upon request.
- (4) For USTs constructed of a steel-fiberglass reinforced plastic composite, an owner and permittee must use one of the codes and standards listed in Appendix F of this division to comply with this section of the rule.

340-150-0325

Operation and Maintenance of Corrosion Protection

- (1) An owner and permittee of an UST system described in OAR 340-150-0320 must operate and maintain the corrosion protection system to provide continuous protection to the metal components of any portion of the UST and underground piping that routinely contains a regulated substance.
- (2) An owner and permittee must have the corrosion protection system inspected and tested for proper operation by a qualified cathodic protection tester licensed by the department (OAR chapter 340, division 160), except as provided by OAR 340-150-0156, in accordance with the following schedule:
 - (a) Within six months of installation; and
 - (b) At least once every three years thereafter.
- (3) An owner and permittee of an UST system with impressed current cathodic protection systems must have the system inspected every 60 days to ensure the equipment is running properly.
- (4) An owner and permittee must report all corrosion protection test failures to the department within 24 hours and submit a copy of the test results as requested by the department.
- (5) An owner and permittee must conduct any repair, modification and replacement of a corrosion protection system or equipment in accordance with OAR 340-150-0350 through 340-150-0354.
- (6) An owner and permittee must maintain records of the operation of the cathodic protection system to demonstrate compliance with the performance standards of this rule, including:
 - (a) The results of the last three impressed current cathodic protection tests required in section (3) of this rule; and
 - (b) The results of the last two cathodic protection inspections required in section (2) of this rule.
- (7) The testing criteria used to determine that corrosion protection is effective must be performed in accordance with a code of practice developed by a nationally recognized association. An owner and permittee may use the codes listed in *Appendix G* of this division to comply with the requirements of this rule.

UST System Repairs

- (1) An owner and permittee of an UST system requiring repair must effect the repair such that the repair will prevent and detect releases due to structural failure or corrosion as long as the UST system is used to store a regulated substance.
- (2) Metal pipe sections and fittings that have released a regulated substance as a result of corrosion or other damage cannot be repaired and must be replaced as a modification to an UST system in accordance with OAR 340-150-0352(4).
- (3) Repair methods. An owner and permittee must repair UST system components according to the manufacturer's specifications and perform repairs in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory. The codes and standards listed in *Appendix H* of this division may be used to comply with this section. A manufacturer's authorized representative may make repairs to fiberglass or other nonmetallic USTs.
- (4) <u>Lined tanks</u>. An owner and permittee of an UST that has been previously repaired or upgraded using the interior lining method may repair the UST by restoring or adding additional lining to the UST if the metal portion of the UST has been determined to be structurally sound by use of the integrity assessment (inspection) method by American Petroleum Institute Publication 1631 (2001), "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks". An owner and permittee must refer to OAR 340-150-0352 and 340-150-0360 for additional requirements for internally lined tanks. An owner and permittee must permanently decommission an UST if the integrity assessment determines that the UST is no longer structurally sound.
 - (5) Tanks. Before operating a repaired UST, an owner and permittee must:
- (a) Have the UST tightness tested after completion of the repair and report to the department any test failures (OAR 340-150-0445); and
- (b) For all repaired tanks except those repaired by lining, obtain written documentation that the original manufacturer has recertified the repaired UST as meeting current UST performance requirements (OAR 340-150-0300). If the original manufacturer is not available (e.g., no longer in business, unknown, etc.) another manufacturer of the same tank brand or type must certify in writing that the UST meets the current UST performance requirements.
- (6) <u>Piping</u>. Before operating repaired piping, an owner and permittee must have the underground piping tightness tested after completion of the repair and report to the department any test failure (OAR 340-150-0410).
- (7) <u>Corrosion protection</u>. An owner and permittee must have a cathodic protection system tested within six months following a repair to ensure proper operation and report to the department any test failure (OAR 340-150-0325).
- (8) <u>Spill and overfill</u>. An owner and permittee must repair spill and overfill equipment when necessary; following repair, the spill and overfill equipment must meet the requirements of OAR 340-150-0310.
- (9) <u>Record keeping</u>. An owner and permittee must maintain records that demonstrate compliance with the requirements of this rule for the remaining operating life of the UST system. Records must include information such as a description of the work, date performed, name and address of the company that performed the work, equipment model number (as appropriate), test results and any other related data. An owner and permittee must make all repair records available for review by the department upon request.

340-150-0352

UST System Modifications and Additions

- (1) An owner and permittee must follow the requirements of this rule when making UST system modifications. For any other modifications not specifically listed, an owner and permittee must follow sections (5) through (7) of this rule.
- (2) An owner and permittee of a metal UST previously protected with cathodic protection may modify the UST by the addition of internal lining if all of the following requirements are met:
- (a) Before the addition of a lining, the integrity of the tank is assessed by a method that has been third party evaluated and approved on a national level (e.g., the method is on a list of approved alternative integrity assessment methods published by the Environmental Protection Agency);
- (b) The lining is installed in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory; and
 - (c) The modifications comply with all requirements of OAR 340-150-0360(2) for internally lined tanks.
- (3) An owner and permittee of an UST that has been internally lined may modify the UST by the addition of corrosion protection if all of the following requirements are met:
- (a) Before the addition of corrosion protection, the integrity of the UST is assessed using the method by American Petroleum Institute Publication 1631 (2001), "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks" to ensure that the tank is structurally sound and free of corrosion holes and that the lining is still performing according to manufacturer requirements;
 - (b) The corrosion protection system meets the performance standards of OAR 340-150-0320(3); and
 - (c) The modifications comply with all requirements of OAR 340-150-0360(2) for internally lined USTs.

- (4) For modification of an UST system by the addition of new piping or replacement of damaged piping, an owner and permittee must comply with the installation requirements for new UST systems (OAR 340-150-0300) and this rule.
- (5) An owner and permittee may use the codes and standards listed in *Appendix H* of this division to comply with this rule.
- (6) An owner and permittee must notify the department of their intent to modify an UST system at least 30 days before any modification work is scheduled to start by submitting an application for UST system modification to the department.
- (a) At least three working days before beginning the modification, an owner or permittee must notify the department of the confirmed date and time the modification will begin to allow observation by the department.
- (b) The owner or permittee must submit a completed UST system modification checklist to the department within 30 days after completion of the modification.
- (7) An owner and permittee must maintain records that demonstrate compliance with the requirements of this rule for the remaining operating life of the UST system. Records must include a description of the work, date performed, name and address of the company that performed the work, equipment model number (as appropriate), test results, modification application and checklist and any other related data. An owner and permittee must make all records for UST system modifications and additions available for review by the department upon request.

UST System Replacements

- (1) An owner and permittee must replace any part of an UST system as necessary for the UST system to meet the following performance standards:
 - (a) Spill and overfill protection (OAR 340-150-0310);
 - (b) Corrosion protection (OAR 340-150-0320 and 340-150-0325); and
 - (c) Release detection (OAR 340-150-0400 through 340-150-0470).
- (2) For the purpose of these rules, the replacement of metal pipe sections and fittings that have released a regulated substance as a result of corrosion or other damage is considered a modification and the owner and permittee must comply with OAR 340-150-0352(4) and 340-150-0300 instead of this rule.
- (3) An owner and permittee must maintain records that demonstrate compliance with the requirements of this rule for the remaining operating life of the UST system. Records must include information such as a description of the work, date performed, name and address of the company that performed the work, equipment model number (as appropriate), test results and any other related data. An owner and permittee must make all records for UST system replacements available for review by the department upon request.

340-150-0360

Requirements for Internally Lined USTs

- (1) Internally lined USTs without corrosion protection. An owner and permittee of an internally lined UST that does not have corrosion protection must have the UST internally inspected or assessed in accordance with a method that has been evaluated and approved by a third party to ensure the tank is structurally sound and the lining is still performing in accordance with all original design specifications. An owner and permittee must have the internal lining inspections or assessments conducted:
 - (a) Within ten years after lining; and
 - (b) Every five years thereafter.
- (2) <u>Internally lined USTs with corrosion protection</u>. An owner and permittee of an internally lined UST that has corrosion protection must conduct internal lining inspections or assessments of the UST as required by section (1) of this rule. However, internal inspections are not required if the owner and permittee meet each of the following conditions:
 - (a) The integrity of the UST is inspected or assessed before the addition of corrosion protection; and
- (b) Written documentation of the inspection results and the internal inspection or assessment is provided to the department that demonstrate the work was conducted in accordance with a code of practice developed by a nationally recognized association, an independent testing laboratory or by a method that has been third party evaluated and approved. If the original integrity inspection or assessment was not conducted, documentation is not available or the documentation is not sufficient as determined by the department, an owner and permittee must complete at least one internal inspection of the tank lining using the method by American Petroleum Institute Publication 1631 (2001), "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks".
- (3) The owner and permittee must permanently decommission an UST system if any internal inspection determines that the UST is no longer structurally sound.

General Release Detection Requirements for Petroleum UST Systems

- (1) An owner and permittee of petroleum UST systems must provide a method of release detection that:
- (a) Can detect a release from any portion of the UST and the underground piping that routinely contains a regulated substance:
- (b) Is an approved leak detection method or equipment as listed by a national organization (e.g., the National Work Group on Leak Detection);
- (c) Is installed, calibrated, operated and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition;
- (d) Meets the performance requirements of this rule and the requirements of 340-150-0410 for underground piping, including any manufacturer performance claims (with the method for determining compliance with performance claims described in writing by the equipment manufacturer or installer); and
- (e) Is capable of detecting the leak rate or quantity specified for that method in OAR 340-150-0450 through 340-150-0470 or 340-150-0410 for piping, with a probability of detection of at least 95 percent and a probability of false alarm of no more than 5 percent. Release detection methods permanently installed before December 22, 1990, are exempt from the requirements of this subsection.
- (2) An owner and permittee must select an appropriate primary release detection method for the UST system (OAR 340-150-0420 through 340-150-0470). More than one method may be in use at an UST facility, but only one can be the primary method. The primary method must be reported to the department when an UST is installed or during an inspection by the department. The primary release detection method cannot be switched from month to month depending on which method passes daily or monthly monitoring requirements. The primary method of release detection can be changed to another method as necessary as part of a repair, modification or replacement or if the period of use for a method has expired by rule.
- (3) When a release detection method indicates a release may have occurred, an owner and permittee must notify the department of a suspected release in accordance with OAR 340-150-0500.
- (4) An owner and permittee must maintain records demonstrating compliance with all applicable requirements of this rule and retain the following records for as long as the release detection equipment is in use:
- (a) All written performance claims pertaining to any release detection system used and the third party evaluation and approval;
 - (b) The results of any sampling, equipment testing or monitoring; and
- (c) Written documentation of all calibration, maintenance and repair of release detection equipment permanently located on site, including any schedules of required calibration and maintenance provided by the release detection equipment manufacturer.
 - (5) An owner and permittee must keep release detection records either:
 - (a) At the UST facility and immediately available for inspection by the department; or
 - (b) At a readily available alternative site and provide the records for inspection by the department upon request.
 - (6) An owner and permittee may use the codes and standards listed in Appendix I of this division to comply with this rule.

340-150-0410

Release Detection Requirements and Methods for Underground Piping

- (1) For underground piping that routinely contains a regulated substance, an owner and permittee of a petroleum UST system must provide release detection which meets the requirements of this rule.
- (2) <u>Pressurized piping</u>. For underground piping that conveys regulated substances under pressure, an owner and permittee must insure that the piping is equipped with an automatic line leak detector that alerts an owner and permittee to the presence of a leak by restricting or shutting off the flow of regulated substances through underground piping or by triggering an audible or visual alarm. Interstitial monitoring sensor systems or stand alone "sump" sensors are not an acceptable alternative for a line leak detector. In addition,
- (a) The line leak detector must be approved by a national organization (e.g., the National Work Group on Leak Detection);
- (b) The line leak detector must be capable of detecting a leak of three gallons per hour at ten pounds per square inch line pressure within one hour; and
- (c) An annual test of the operation of the line leak detector must be conducted in accordance with the manufacturer's requirements.
- (3) In addition to the requirements of section (2) of this rule, an owner and permittee with pressurized piping must conduct an annual line tightness test that can detect a 0.1 gallon per hour leak rate at one and one-half times the operating pressure. Interstitial monitoring sensors may replace the annual line tightness test if:
- (a) The equipment is designed, constructed and installed to monitor all portions of the underground piping that routinely contains a regulated substance; and

- (b) The requirements for interstitial monitoring (OAR 340-150-0465) are met.
- (4) <u>Suction piping</u>. For underground piping that conveys a regulated substance under suction (i.e., piping that operates at less than atmospheric pressure), an owner and permittee must check the piping for the presence of air in the pipeline in accordance with the National Fire Protection Association standard NFPA, 329 (1999) "Recommended Practices for Handling Releases of Flammable and Combustible Liquids and Gases" *Chapter 5, Release Detection of Tanks and Piping*, subsection 5-2.3.2(b), if any of the following indicator conditions are observed by any person dispensing a regulated substance:
- (a) If there are indications of air in the pipeline or other unusual operating conditions are observed (refer to NFPA 329 subsection 5-2.3.2(a) for specific indicators), the pipeline check valve should be inspected to determine if it is seated tightly. The check valve must be repaired, replaced or sealed off as appropriate depending on the results of the inspection; and
- (b) The requirements of OAR 340-150-0350 through 340-150-0354 must be met for any repair, modification or replacement actions taken to correct a problem.
- (5) In addition to the requirements of section (4) of this rule, an owner and permittee of suction piping must conduct a line tightness test at least once every three years that can detect a 0.1 gallon per hour leak rate at one and one-half times the operating pressure.
 - (6) Release detection is not required for suction piping that is designed and constructed to meet the following standards:
 - (a) The below grade underground piping operates at less than atmospheric pressure;
- (b) The below grade underground piping is sloped so that the contents of the pipe will drain back into the UST if the suction is released;
 - (c) Only one check valve is present in each suction line;
 - (d) The check valve is located directly below and as close as practical to the suction pump; and
 - (e) A method is provided that allows the department to readily determine compliance with this section of the rule.
- (7) In lieu of conducting annual line tightness tests on either pressurized or suction piping, an owner and permittee may conduct monthly monitoring by one of the applicable release detection methods described in OAR 340-150-0450 through 340-150-0470, if the method is designed to detect a release from any portion of the underground piping that routinely contains a regulated substance.
- (8) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records.
- (9) An owner and permittee must report to the department any leak test results or other observations or results indicating the possibility of a release within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510.

Release Detection Requirements for Hazardous Substance UST Systems

- (1) An owner and permittee of an UST system containing a hazardous substance other than petroleum must provide release detection that meets the requirements of this rule.
- (2) <u>Secondary containment systems</u>. An owner and permittee may use the provisions of 40 CFR § 265.193, "Containment and Detection of Releases" to comply with this section of the rule. Secondary containment systems must be designed, constructed and installed to:
 - (a) Contain regulated substances released from the UST system until they are detected and removed; and
- (b) Prevent the release of regulated substances to the environment at any time during the operational life of the UST system.
 - (3) Multiwalled USTs must be designed, constructed and installed to:
 - (a) Contain a release from any portion of the inner tank within the outer wall; and
 - (b) Detect the failure of the inner wall.
 - (4) External liners (including vaults) must be designed, constructed and installed to:
 - (a) Contain 100 percent of the capacity of the largest tank within its boundary;
- (b) Prevent the interference of precipitation or groundwater intrusion with the ability to contain or detect a release of regulated substances; and
- (c) Surround the tank completely (i.e., it is capable of preventing lateral as well as vertical migration of regulated substances).
- (5) <u>Underground piping</u> must be equipped with secondary containment that satisfies the requirements of section (2) of this rule (e.g., trench liners, jacketing of double walled pipe). In addition, underground piping that conveys regulated substances under pressure must be equipped with an automatic line leak detector in accordance with OAR 340-150-0410(2).
- (6) An owner and permittee must monitor the UST system for releases every 30 days and record the results for each month.
- (7) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records.

- (8) An owner and permittee must report to the department any release detection failure indicating the possibility of a release within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510.
- (9) An owner and permittee may use an alternative method of release detection if the proposed method is approved by the department in writing before installation of the UST system or addition of the release detection method. To obtain approval from the department, an owner and permittee must submit the following information for review:
- (a) Technical, scientific data and reports that demonstrate that the proposed alternate method can detect a release of the stored hazardous substance as effectively as any of the methods allowed in OAR 340-150-0450 through 340-150-0470 can detect a release of petroleum; and
- (b) Information on the effective corrective action technologies, health and environmental risks and chemical and physical properties of the stored substance and the geologic characteristics of the UST facility.

Inventory Control Method of Release Detection

- (1) An owner and permittee using inventory control as a release detection method must meet the requirements of this rule. Inventory control cannot be used as a release detection method for underground piping.
 - (2) Use of inventory control as a release detection method is allowed for a period of:
 - (a) Ten years after the installation of the UST system; or
 - (b) Ten years after the UST system achieved compliance with corrosion protection requirements; except
 - (c) In no case may inventory control be used as a primary release detection method after December 22, 2008; and
- (d) After the period of use has expired as listed in subsections (a) through (c) of this section, an owner and permittee must use one of the release detection methods in OAR 340-150-0450 through 340-150-0470.
- (3) Regulated substance (i.e., product) inventory control must be recorded daily and reconciled monthly to detect a release of at least 1.0 percent of flow-through plus 130 gallons on a monthly basis.
- (4) Inventory volume measurements for regulated substance inputs (deliveries), withdrawals and the amount still remaining in the UST must be recorded each operating day.
- (5) The equipment used to measure the level of regulated substance in the UST (e.g., stick or automatic tank gauge) must be capable of measuring the level of the regulated substance over the full range of the tank's height to the nearest one-eighth of an inch.
- (6) Regulated substance inputs must be reconciled with delivery receipts by measurement of the tank inventory volume before and after each delivery.
 - (7) Regulated substance deliveries must be made through a drop tube that extends to within one foot of the tank bottom.
 - [Note: To meet Stage I air quality vapor control requirements, drop tubes must be within six inches of the tank bottom.]
- (8) Regulated substance dispensing must be metered and recorded within the local standards for meter calibration or an accuracy of six cubic inches for every five gallons of the regulated substance withdrawn.
- (9) The measurement of any water level in the bottom of the tank must be made to the nearest one-eighth of an inch at least once a month
- (10) Any monthly inventory reconciliation (positive or negative) that exceeds the comparison number of 1.0 percent of flow-through plus 130 gallons or greater leak rate in any single month is considered to be a release detection failure. An owner and permittee must:
- (a) Report to the department a release detection failure that occurs for two consecutive months within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510; and
- (b) Immediately investigate all larger-than-normal or reoccurring variations in results, including widely fluctuating water levels in the UST and report such variations to the department as a suspected release if the variation cannot be accounted for, without waiting to obtain a second month of data.
- (11) An owner and permittee must have USTs tightness tested (OAR 340-150-0445) at least once every five years when inventory control is used as the sole or primary release detection method.
- (12) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records and the last two tightness test results.
- (13) An owner and permittee may use the practices described in the American Petroleum Institute Publication 1621, "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets" (1993), where applicable, as guidance in meeting the requirements of this rule.

340-150-0435

Statistical Inventory Reconciliation Method of Release Detection

(1) An owner and permittee using statistical inventory reconciliation (SIR) as a release detection method must meet the requirements of this rule. SIR cannot be used as a release detection method for pressurized underground piping.

- (2) The method must be capable of detecting a least a 0.2 gallon per hour leak rate from any portion of the UST that routinely contains a regulated substance with a probability of detection of at least 95 percent and a probability of false alarm of no more than 5 percent.
- (3) The SIR method used must be an approved leak detection method that meets the requirements of section (2) of this rule as listed by a national organization (e.g., the National Work Group on Leak Detection).
- (4) Daily inventory control regulated substance measurements and data gathering must be performed in accordance with OAR 340-150-0430(4) through (9).
- (5) An UST system must be monitored for releases on a monthly basis when the SIR method is used. To meet the monthly monitoring requirements, an owner and permittee must, within 22 days after each calendar month or 30-day period, submit the daily inventory records to and receive the SIR results back from the SIR vendor they have hired to perform the statistical analysis. An owner and permittee must follow up with the SIR vendor if there are delays and make any changes necessary to their service agreement or contract to prevent late report submittals.
- (6) The results of a SIR analysis that shows a 0.2 gallon per hour or greater leak rate in any single month is considered to be a release detection failure.
- (7) An owner and permittee must report to the department any single release detection failure and any two inconclusive results (as reported by the SIR vendor) obtained within a consecutive two-month period within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with OAR 340-150-0510; additionally,
 - (a) An owner and permittee must investigate and attempt to remedy or repair the cause of inconclusive results; and
- (b) SIR must be discontinued as the release detection method and immediately substituted with one of the release detection methods listed in OAR 340-150-0450 through 340-150-0470 if:
- (A) An owner and permittee is unable to correct the cause of the inconclusive results after tank and piping tightness testing results or other investigation methods confirm that the UST system is not leaking; and
 - (B) More than four inconclusive results are recorded within a consecutive 12-month period.
- (c) An owner and permittee must immediately investigate all larger-than-normal, unusual or reoccurring variations in results, including widely fluctuating water levels in the tank and report such variations as a suspected release if the variation cannot be accounted for, without waiting to obtain a second month of data.
- (8) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records, including SIR vendor results and inventory control records.

Manual Tank Gauging Release Detection Method

- (1) An owner and permittee may use manual tank gauging as a release detection method for USTs that are less than 2,001 gallons in size.
 - (a) For USTs of 1,000 gallons or less in size, this method may be used as the sole method of release detection.
- (b) For USTs of 1,001 to 2,000 gallons in size, this method may be used instead of manual inventory control (OAR 340-150-0430). This method is allowed for a period of:
 - (A) Ten years after the installation of the UST system; or
 - (B) Ten years after the UST system achieved compliance with corrosion protection requirements; except
 - (C) In no case may manual tank gauging be used as a primary release detection method after December 22, 2008.
- (c) After the period of use has expired as listed in paragraph (1)(b)(C) of this section, an owner and permittee of an UST between 1,001 and 2,000 gallons in size must use one of the release detection methods in OAR 340-150-0450 through 340-150-0470.
 - (2) An owner and permittee must use the following procedures for the manual tank gauging release detection method:
- (a) Tank liquid level measurements must be taken at the beginning and ending of a minimum 36-hour test period, during which time no liquid (i.e., regulated substance) may be added to or removed from the UST;
- (b) Level measurements must be based on an average of two consecutive measuring stick or automatic tank gauge readings at both the beginning and ending of the period in which the UST is tested; and
- (c) The equipment used to measure the level of regulated substance in the UST (e.g., stick or automatic tank gauge) must be capable of measuring the level of the regulated substance over the full range of the UST's height to the nearest one-eighth of an inch.
- (3) An owner and permittee must monitor the UST system for releases at least weekly and record and reconcile the results of each week's readings for each month.
- (4) In addition to any other requirements of this rule, an owner and permittee must conduct tightness testing (OAR 340-150-0445) of USTs of 1,001 to 2,000 gallons in size at least once every five years.
- (5) An owner and permittee must report to the department any variation between beginning and ending measurements that exceeds either the weekly or monthly standards in subsections (a) through (c) of this section within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510:

- (a) For USTs of 550 gallons or less in size:
- (A) Weekly standard (one test) is ten gallons.
- (B) Monthly standard (average of four tests) is five gallons.
- (b) For USTs of 551 to 1,000 gallons in size:
- (A) Weekly standard (one test) is 13 gallons.
- (B) Monthly standard (average of four tests) is seven gallons.
- (c) For USTs of 1,001 to 2,000 gallons in size:
- (A) Weekly standard (one test) is 26 gallons.
- (B) Monthly standard (average of four tests) is 13 gallons.
- (d) An owner and permittee must immediately investigate all larger-than-normal or reoccurring variations in results and report such variations to the department as a suspected release if the variation cannot be accounted for, without waiting to obtain a second week of data.
- (6) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records and the last two tightness test results.

Tank Tightness Testing for Release Detection and Investigation

- (1) An owner and permittee using tank tightness testing in combination with a primary release detection method or as a method for investigating a suspected release must use a test method or procedure that:
- (a) Is able to detect a 0.1 gallon per hour leak rate from any portion of the UST that routinely contains a regulated substance, while accounting for the effects of thermal expansion or contraction of the regulated substance, vapor pockets, tank deformation, evaporation or condensation and the location of the water table;
- (b) Meets a probability of detection of at least 95 percent and a probability of false results (or false alarm, depending on method used) of no more than 5 percent;
- (c) Is an approved leak detection method or equipment as listed by a national organization (e.g., the National Work Group on Leak Detection); and
- (d) Is performed by a service provider or supervisor licensed by the department, except as provided by OAR 340-150-0156.
- (2) Some automatic tank gauge equipment may meet the leak rate and probability requirements and may be used in place of a separate tank tightness test. To qualify as a tank tightness test, the automatic tank gauge must meet the requirements of subsections (1)(a), (b) and (c) of this rule.
- (3) If an UST system fails a tank tightness test (after the tank tester has ensured that all test protocols were properly performed), an owner and permittee must report the failure to the department within 24 hours of receipt of the results as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510.

340-150-0450

Automatic Tank Gauging Release Detection Method

- (1) An owner and permittee using equipment for automatic tank gauging (ATG) that tests for the loss of a regulated substance and conducts inventory control as a release detection method must use equipment that meets the requirements of this section. The ATG system must:
- (a) Be able to detect a 0.2 gallon per hour leak rate with a probability of detection of at least 95 percent and a probability of false alarm of no more than 5 percent for all portions of the UST that routinely contain a regulated substance; and
- (b) Be an approved leak detection method or equipment as listed by a national organization (e.g., the National Work Group on Leak Detection).
- (2) For USTs, an owner and permittee must monitor and test for releases at least once every 30 days and record results for each month
- (3) For underground piping, an owner and permittee must monitor and test for releases if the ATG system is designed to detect a release from any portion of the underground piping that routinely contains a regulated substance and record results for each month as follows:
 - (a) Daily for pressurized piping.
 - (b) Once every 30 days for suction piping.
 - (4) An owner and permittee must:
- (a) Report to the department any leak test results indicating the possibility of a release (i.e., test failure) within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with OAR 340-150-0510; and
- (b) Immediately investigate all larger-than-normal or reoccurring variations in results, including widely fluctuating water levels in the tank and report such variations as a suspected release if the variation cannot be accounted for, without waiting to obtain a second month of data.

- (5) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records.
- (6) ATG systems installed before December 22, 1990, are exempt from the leak rate quantities, probability limits and third party evaluation requirements of this rule, except:
- (a) The ATG system must be able to detect a 0.2 gallon per hour leak rate from any portion of the UST that routinely contains a regulated substance; and
- (b) An owner and permittee can only use the ATG system to obtain daily regulated substance volumes for the inventory control release detection method (OAR 340-150-0430) if the ATG does not meet the requirements of section (1) of this rule.

Vapor Monitoring Release Detection Method

- (1) An owner and permittee may use testing or monitoring for vapors within the soil gas of the excavation zone as a release detection method for an UST or underground piping if the method is approved by the department in writing before installing or operating any portion of the vapor monitoring system, including wells.
- (2) An owner and permittee must submit to the department, at least 30 days before installing any portion of the vapor monitoring system, a written design plan (including all technical data and design information) prepared and signed by a registered professional engineer or a registered geologist specially qualified by education and experience to design release detection systems. The design plan must meet the following minimum requirements:
- (a) The materials used as backfill must be sufficiently porous (e.g., gravel, sand, crushed rock) to readily allow diffusion of vapors from releases into the excavation area;
- (b) The stored regulated substance or a tracer compound placed in the UST system, must be sufficiently volatile (e.g., gasoline) to result in a vapor level that is detectable by the monitoring devices located in the excavation zone in the event of a release from the tank;
- (c) The measurement of vapors by the monitoring device must not be rendered inoperative by groundwater, rainfall or soil moisture or other known interferences so that a release could go undetected for more than 30 days;
- (d) The level of background contamination in the excavation zone must not interfere with the method used to detect releases from the tank; and
- (e) The vapor monitors must be designed and operated to detect any significant increase in concentration above background of the regulated substance stored in the UST system, a component or components of that substance or a tracer compound placed in the UST system.
- (3) Before installation of monitoring wells, an owner and permittee must have the site assessed to demonstrate compliance with the requirements of this rule and to establish the number and positioning of monitoring wells that will detect releases within the excavation zone from any portion of the UST or underground piping that routinely contains a regulated substance.
- (4) The department will approve the installation if, after reviewing the design plan, it determines that the vapor monitoring system proposed is capable of detecting a release from any portion of the UST or underground piping that routinely contains a regulated substance.
- (5) An owner and permittee must mark and secure monitoring wells at all times to prevent unauthorized access and tampering.
 - (6) Release detection observation, documentation and reporting requirements. An owner and permittee must:
- (a) Operate and maintain the continuous monitoring device or manual method so the equipment will detect the presence of vapors as noted in subsection (2)(e) of this rule;
 - (b) Perform an alarm test at least once each month;
- (c) Check the excavation zone for releases and record the observation results for each month. At a minimum, records must include documentation that the system is properly operated and maintained and include results of alarm tests made, according to the following schedule:
 - (A) On a daily basis for USTs and pressurized piping.
 - (B) Once every 30 days for suction piping.
- (d) Report to the department any observations or alarms indicating the possibility of a release within 24 hours as a suspected release (OAR 340-150-500) and immediately begin investigation in accordance with OAR 340-150-0510.
- (7) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records and vapor well installation approval documents must be available for department review upon request.

340-150-0460

Groundwater Monitoring Release Detection Method

(1) An owner and permittee may use testing or monitoring for liquid regulated substances on or in the groundwater as a release detection method for an UST or underground piping if the method is designed to detect a release from any portion of

the UST or underground piping that routinely contains a regulated substance.

- (2) An owner and permittee must submit to the department, at least 30 days before installing or operating any portion of the groundwater monitoring system, a written design plan (including all technical data and design information) prepared and signed by a registered professional engineer or a registered geologist specially qualified by education and experience to design release detection systems. The design plan must meet the following minimum requirements:
 - (a) The regulated substance stored must be immiscible in water and have a specific gravity of less than one;
- (b) Sufficient data must be included, and periodically checked, to demonstrate that groundwater will never be more than 20 feet from the ground surface and the hydraulic conductivity of the soil between the UST system and the monitoring wells or devices is not less than 0.01 cm/sec (e.g., the soil should consist of gravels, coarse to medium sands, coarse silts or other permeable materials);
- (c) The slotted portion of the monitoring well casing must be designed to prevent migration of natural soils or filter pack into the well and to allow entry of regulated substance on the water table into the well under both high and low groundwater conditions;
 - (d) Monitoring wells must be sealed from the ground surface to the top of the filter pack; and
 - (e) Monitoring wells or devices must intercept the excavation zone or are as close to it as is technically feasible.
- (3) Before installation of monitoring wells, an owner and permittee must have the site assessed to demonstrate compliance with the requirements of this rule and to establish the number and positioning of monitoring wells that will detect releases within the excavation zone from any portion of the UST or piping that routinely contains a regulated substance.
- (4) The department will approve the installation if, after reviewing the design plan, it determines that the groundwater monitoring system proposed is capable of detecting a release from any portion of the UST or underground piping that routinely contains a regulated substance.
- (5) An owner and permittee must mark and secure monitoring wells at all times to prevent unauthorized access and tampering.
 - (6) Release detection observation, documentation and reporting requirements. An owner and permittee must:
- (a) Operate and maintain the continuous monitoring device or manual method so the equipment will detect the presence of at least one-eighth of an inch of free product on top of the groundwater in the monitoring wells;
 - (b) Perform an alarm test at least once each month;
- (c) Check the excavation zone for releases and record the observation results for each month. At a minimum, records must include documentation that the system is properly operated and maintained and include results of alarm tests made, according to the following schedule:
 - (A) On a daily basis for USTs and pressurized piping.
 - (B) Once every 30 days for suction piping.
- (d) Report to the department any observations or alarms indicating the possibility of a release within 24 hours as a suspected release (OAR 340-150-500) and immediately begin investigation in accordance with OAR 340-150-0510.
- (7) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records and groundwater well installation approval documents must be available for department review upon request.

340-150-0465

Interstitial Monitoring Release Detection Method

- (1) An owner and permittee may use an interstitial monitoring system as a release detection method if:
- (a) The system is designed, constructed and installed in accordance with a national code of practice or industry standard and the interstitial monitoring system is an approved leak detection system (method and equipment) as listed by a national organization (e.g., the National Work Group on Leak Detection); and
- (b) The system is able to detect a leak from any portion of an UST or underground piping that routinely contains a regulated substance.
 - (2) An owner and permittee must meet the following requirements for the specific type of UST system or piping:
- (a) <u>Multiwalled UST systems</u>. The sampling or testing method must be able to detect a release through the inner wall in any portion of the UST. The provisions outlined in the Steel Tank Institute "Standard for Dual Wall Underground Storage Tanks" (2001) may be used as guidance for aspects of the design and construction of underground metal double walled tanks.
- (b) <u>UST systems with a secondary barrier within the excavation zone</u>. The sampling or testing method used must be able to detect a release between the UST system and the secondary barrier.
- (A) The secondary barrier around or beneath the UST system must consist of artificially constructed material that is sufficiently thick and impermeable (at least 10 6 cm/sec for the regulated substance stored) to direct a release to the monitoring point and permit its detection;
- (B) The secondary barrier must be compatible with the regulated substance stored so that a release from the UST system will not cause a deterioration of the barrier or allow a release to pass through the barrier;
 - (C) For USTs with corrosion protection, the secondary barrier must be installed so that it does not interfere with the

proper operation of the corrosion protection system;

- (D) Groundwater, soil moisture or rainfall cannot render the testing or sampling method used inoperative so that a release could go undetected for more than 30 days or one day if used for pressurized underground piping;
- (E) Before installation, an owner and permittee must have the site assessed to demonstrate that the secondary barrier is always above the seasonal high groundwater level and not in a 25-year flood plain, unless the barrier and monitoring system are designed for use under such conditions; and
- (F) An owner and permittee must mark and secure monitoring wells at all times to prevent unauthorized access and tampering.
- (c) <u>USTs</u> with an internally fitted liner. An automated device must be able to detect a release between the inner wall of the UST and the liner and the liner must be compatible with the regulated substance stored.
- (d) <u>Double walled pressurized piping</u>. Interstitial monitoring sensors must be installed in any transition sump which houses a noncontinuous junction of the interstitial space (e.g., any and all points along the piping run where the interstitial space is no longer continuous).
- (3) An owner and permittee must monitor the UST and underground suction piping for a release at least every 30 days and record the results for each month.
- (4) An owner and permittee must monitor pressurized underground piping for a release daily and record the results for each month
- (5) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records. Records must include, at a minimum, the date the system was checked, observations made and the name or initials of the person conducting the monitoring. In addition, records for electronic systems must include: power status (on or off), alarm indication status (yes or no) and sensor malfunction noted (yes or no).
- (6) An owner and permittee must report to the department any leak test observations, alarms or results indicating the possibility of a release to the interstitial area within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with 340-150-0510.

340-150-0470

Other Methods of Release Detection

- (1) An owner and permittee may use a release detection method for an UST or underground piping not otherwise specified in OAR 340-150-0410 through 340-150-0465 if the device is able to detect a 0.2 gallon per hour leak rate with a probability of detection of at least 95 percent and a probability of false alarm of no more than 5 percent for all portions of the UST or underground piping that routinely contains a regulated substance and is an approved leak detection method or equipment as listed by a national organization (e.g., the National Work Group on Leak Detection).
- (2) An owner and permittee must monitor the UST and underground suction piping for a release at least every 30 days and record the results for each month.
- (3) An owner and permittee must monitor pressurized underground piping for a release daily and record the results for each month.
 - (4) An owner and permittee must:
- (a) Report to the department any release detection test results indicating the possibility of a release (i.e., test failure or alarm) within 24 hours as a suspected release (OAR 340-150-0500) and immediately begin investigation in accordance with OAR 340-150-0510; and
- (b) Immediately investigate all larger-than-normal or reoccurring variations in results and report such variations as a suspected release if the variation cannot be accounted for, without waiting to obtain a second confirmation of data.
- (5) An owner and permittee must retain at a minimum the most current 12 consecutive months of release detection records.

340-150-0500

Reporting Suspected Releases

- (1) An owner and permittee of an UST system must notify the department within 24 hours and follow the procedures in OAR 340-150-0510 for any of the following conditions:
- (a) The discovery by any means of a regulated substance at the UST facility or in the surrounding off site area such as, but not limited to, the presence of free product or vapors in soils, basements, sewer or utility lines or nearby surface water or release into a secondary containment area. Additionally, an owner and permittee must identify and mitigate any fire, explosion or vapor hazards at the UST facility in accordance with OAR 340-122-0220(3);
- (b) Unusual operating conditions (such as, but not limited to, the erratic behavior of dispensing equipment, the sudden loss of product from the UST system, differences or widely fluctuating water levels or an unexplained presence of water in the tank) observed by the owner, permittee, employee or other knowledgeable personnel, unless system equipment is immediately tested and found to be defective, but not leaking, and is immediately repaired or replaced; or

- (c) Monitoring results or alarms from any release detection method that indicates a release may have occurred, unless the monitoring device is found to be defective and is immediately repaired, recalibrated or replaced and subsequent monitoring events as required by the specific release detection method do not confirm the initial result. The specific release detection requirements are found in OAR 340-150-0420 through 340-150-0470.
- (2) Upon receipt of a notice of a suspected release, a confirmation number will be provided to the owner and permittee that serves as proof that timely notice was received. This confirmation number should be referenced by an owner and permittee when reporting the results of actions taken to comply with OAR 340-150-0510.

Suspected Release Investigation and Confirmation Steps

- (1) Following the discovery of a suspected release, an owner and permittee must immediately initiate investigation and confirmation of a suspected release of a regulated substance as required by this rule. This investigation must be completed within seven days or as otherwise approved or directed by the department.
- (2) Upon expiration of the 7-day period or other period approved by the department, an owner and permittee must notify the department of the investigation results by submitting to the department:
- (a) A written description of the system test conducted confirming that a release did not occur, including any test results; or
- (b) A written plan of action to complete the suspected release investigation system test or site assessment. Any plan of action must include a firm schedule for completion.
- (3) System test. An owner and permittee must conduct tightness testing to determine whether a leak exists in any portion of the UST that routinely contains a regulated substance (OAR 340-150-0445) or the underground piping (340-150-0410) or both. An owner and permittee must investigate the cause of a release into any secondary containment unit including, but not limited to, underground piping, turbine sumps, transition sumps and dispenser pans by conducting tests in accordance with manufacturer requirements or as directed by the department. All regulated substances (product) or product and water mixture must be removed from the containment system and properly disposed in accordance with all state, federal and local requirements.
- (a) If the suspected release was not reported due to any of the conditions described in OAR 340-150-0500(1)(a) and the system test results do not indicate that a release has occurred, further investigation is not required, unless otherwise directed by the department.
- (b) If the suspected release was reported due to any of the conditions described in OAR 340-150-0500(1)(a) or the system test results indicate that a release exists, an owner and permittee must assess and repair, replace or modify the UST system and begin corrective action in accordance with sections (4) and (5) of this rule.
- (4) <u>Site assessment</u>. If the test results for the UST, piping or secondary containment units do not indicate that a release exists, but the suspected release was reported due to any of the conditions described in OAR 340-150-0500(1)(a) or if directed by the department, an owner and permittee must conduct a site assessment for contaminated soil or groundwater. An owner and permittee must measure for the presence of a release where contamination is most likely to be present based on all information available. In selecting sample types, sample locations and measurement methods, an owner and permittee must consider the nature of the stored substance, the type of initial alarm or cause for suspicion, the type of backfill, the depth to groundwater and other factors appropriate for identifying the presence and source of the release. The requirements for sample collection, analytical tests and methods contained in OAR 340-122-0205 through 340-122-0360 must be used as appropriate. The department may require that a sampling plan be submitted for approval before conducting any sampling on a case by case basis. In addition:
- (a) If the site assessment results do not indicate that a release has occurred, further investigation is not required unless specifically directed by the department.
- (b) If the site assessment results indicate that a release has occurred, an owner and permittee must begin corrective action in accordance with section (5) of this rule.
- (5) If the suspected release investigation confirms that a release has occurred, an owner and permittee must report the confirmed release to the department within 24 hours of confirmation and comply with the following release reporting, site investigation and corrective action requirements:
 - (a) For petroleum USTs; OAR 340-122-0205 through 340-122-0360.
- (b) For USTs containing nonpetroleum regulated substances; OAR 340-122-0010 through 340-122-0115, except that releases must be reported in accordance with the requirements of OAR chapter 340, division 142.
- (6) The department may require that an owner and permittee perform additional actions not specifically listed in this rule on a case by case basis to address actual or potential threat to human health or the environment.

Investigation Due to Off Site Impacts

When required by the department, an owner and permittee of an UST system must follow the procedures in OAR 340-150-0510 to determine if their UST system is the source of off site impacts. These impacts include, but are not limited to, the presence of a regulated substance (such as the presence of free product or vapors in soils, basements, sewer and utility lines and nearby surface and drinking waters) that has been observed by the department or brought to its attention by another person.

340-150-0540

Applicability to Previously Closed UST Systems

When directed by the department, an owner of an UST system permanently closed or abandoned (e.g., left unused without being substantially emptied, decommissioned or permanently altered structurally to prevent reuse) before December 22, 1988, or an owner and permittee for any UST facility for which inadequate decommissioning records are available for review by the department, must assess the excavation zone and close the UST system in accordance with this division if a release from the UST poses, in the judgment of the department, a current or potential threat to human health or the environment.

340-150-0550

Definitions for OAR 340-150-0555 and 340-150-0560

As used in OAR 340-150-0555 and 340-150-0560, the following terms are defined as follows:

- (1) "Existing UST system" means an UST system used to contain an accumulation of regulated substances where installation commenced on or before December 22, 1988.
- (2) "New UST system" means an UST system used to contain a regulated substance and for which installation commenced after December 22, 1988.
- (3) "Upgrade" means the addition to or retrofit of an UST system to meet technical requirements for cathodic protection, lining, release detection or spill and overfill protection before December 22, 1998.

340-150-0555

Compliance Dates for USTs and Piping

- (1) An owner and permittee must comply with all release detection requirements for a new or existing UST system or permanently close the UST system by the following schedule:
 - (a) For UST systems installed before 1965 and for UST systems where the installation date is unknown:
 - (A) December 22, 1989, for tanks and suction piping.
 - (B) December 22, 1990, for pressurized piping.
- (b) For UST systems installed between 1965 and 1969 December 22, 1990, for tanks, suction piping and pressurized piping.
 - (c) For UST systems installed between 1970 and 1974:
 - (A) December 22, 1990, for pressurized piping.
 - (B) December 22, 1991, for tanks and suction piping.
 - (d) For UST systems installed between 1975 and 1979:
 - (A) December 22, 1990, for pressurized piping.
 - (B) December 22, 1992, for tanks and suction piping.
 - (e) For UST systems installed between 1980 and December 22, 1988:
 - (A) December 22, 1990, for pressurized piping.
 - (B) December 22, 1993, for tanks and suction piping.
- (f) For tanks, suction piping and pressurized piping, release detection requirements must be met upon date of installation for all new UST systems installed after December 22, 1988.
- (2) An owner and permittee of a new UST system installed after December 22, 1988, must comply with the corrosion protection performance standards for tanks and piping (OAR 340-150-0320 and 340-150-0325) by no later than December 22, 1998.
- (3) An owner and permittee of an existing UST system installed on or before December 22, 1988, must comply with the requirements for upgrading USTs and piping (OAR 340-150-0560) by no later than December 22, 1998.
- (4) In lieu of complying with section (2) or (3) of this rule, an owner and permittee must decommission the UST system in compliance with the requirements of OAR 340-150-0166 through 340-150-0168 by no later than December 22, 1998.
- (5) An owner and permittee of a hazardous substance UST system (e.g., an UST containing any nonpetroleum regulated substance) installed on or before December 22, 1988, must comply with the release detection requirements of OAR 340-150-0400 and 340-150-0410 until December 22, 1998. After December 22, 1998, an owner and permittee of all hazardous

substance UST systems must comply with the requirements of OAR 340-150-0420.

(6) An owner and permittee of a new or existing UST system that does not meet the performance standards in OAR 340-150-0300 or 340-150-0560 may use monthly inventory control and annual tank tightness testing as a release detection method until December 22, 1998. After that date, an owner and permittee must upgrade or permanently close the UST system.

340-150-0560

Upgrading Requirements for Existing UST Systems

This rule describes the technical requirements for UST systems that an owner and permittee was required to meet by December 22, 1998, in accordance with OAR 340-150-0555(3). The equivalent federal rule citation has been included for reference.

- (1) <u>Tank upgrading requirements</u>. An owner and permittee of a steel UST must upgrade the UST system to meet one of the following requirements in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory (40 CFR § 280.21(b)):
 - (a) Interior lining. An UST may be upgraded by internal lining (40 CFR § 280.21(b)(1)) if:
 - (A) The lining is installed in accordance with the requirements of 40 CFR § 280.33 (OAR 340-150-0352); and
- (B) Within ten years after lining and every five years thereafter, the lined UST is internally inspected and found to be structurally sound with the lining still performing in accordance with original design specifications (OAR 340-150-0360).
- (b) Cathodic protection (40 CFR § 280.21(b)(2)). An UST may be upgraded by the addition of cathodic protection if the cathodic protection system meets the requirements of 40 CFR § 280.20(a)(2)(ii), (iii) and (iv) (OAR 340-150-0320(3)) and the integrity of the UST is ensured using one of the following methods:
- (A) The UST is internally inspected and assessed to ensure that the tank is structurally sound and free of corrosion holes before installing the cathodic protection system;
- (B) The UST has been installed for less than ten years and is monitored monthly (or daily as required by the specific method) for releases in accordance with 40 CFR § 280.43(d) through (h) (OAR 340-150-0450 through 340-150-0470);
- (C) The UST has been installed for less than ten years and is assessed for corrosion holes by conducting two tightness tests that meet the requirements of 40 CFR § 280.43(c) (OAR 340-150-0445). The first tightness test must be conducted before installing the cathodic protection system. The second tightness test must be conducted between three and six months following the first operation of the cathodic protection system; or
- (D) The UST is assessed for corrosion holes by a method that is determined by the department to prevent releases in a manner that is no less protective of human health and the environment than paragraphs (A) through (C) of this subsection.
- (c) Internal lining combined with cathodic protection (40 CFR § 280.21(b)(3)). An UST may be upgraded by both internal lining and cathodic protection if:
 - (A) The lining is installed in accordance with the requirements 40 CFR § 280.33 (OAR 340-150-0352); and
- (B) The cathodic protection system meets the requirements of 40 CFR § 280.20(a)(2)(ii), (iii) and (iv) (OAR 340-150-0320(3)).
 - (2) An owner and permittee may use the following codes and standards to comply with section (1) of this rule:
- (a) American Petroleum Institute Publication 1631, "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks";
- (b) National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10 Year Life Extension of Existing Steel Underground Tanks by Lining Without the Addition of Cathodic Protection";
- (c) National Association of Corrosion Engineers Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried or Submerged Liquid Storage Systems"; and
- (d) American Petroleum Institute Publication 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems."
- (3) Piping upgrading requirements (40 CFR § 280.21(c)). An owner and permittee of steel underground piping that routinely contains a regulated substance must cathodically protect the piping in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory and meet the requirements of 40 CFR § 280.20(b)(2)(ii) (iii) and (iv) (OAR 340-150-0320(2) through (4)). An owner and permittee may use the following codes and standards to comply with this requirement (40 CFR § 280.20(b)):
 - (a) Underwriters Laboratories Subject 971, "UL Listed Non-Metal Pipe";
 - (b) Underwriters Laboratories Standard 567, "Pipe Connectors for Flammable and Combustible and LP Gas";
- (c) Underwriters Laboratories of Canada Guide ULC-107, "Glass Fiber Reinforced Plastic Pipe and Fittings for Flammable Liquids"; and
 - (d) Underwriters Laboratories of Canada Standard CAN 4-S633-M81, "Flexible Underground Hose Connectors."
- (4) Spill and overfill prevention equipment (40 CFR § 280.21(d)). To prevent spilling and overfilling associated with transfer of a regulated substance to the UST system, an owner and permittee of an existing UST system must comply with new UST system spill and overfill prevention equipment requirements specified in 40 CFR § 280.20(c) (OAR 340-150-0310).

(5) Reporting requirements (40 CFR § 280.21(e) as previously modified by OAR 340-150-0003(41)). At least 30 days before beginning the upgrading of an existing UST system under sections (1) and (2) of this rule, an owner and permittee must notify the department, on a form provided by the department, of their intent to upgrade an existing UST system. Unless the department agrees to waive the requirement, at least three working days before beginning the upgrade, an owner, permittee or licensed service provider performing the work must notify the department of the confirmed date and time the upgrade will begin to allow observation by the department. An owner, permittee or licensed service provider must submit a completed installation checklist to the department within 30 days after completion of the upgrade.

340-150-0600

Delegation of Program Administration

- (1) Any agency of the state or a unit of local government that seeks the authority to administer all or part of the UST program covered by OAR chapter 340, divisions 150 and 151 must submit to the department a written application that describes the portions of the UST program it proposes to administer. The application must contain the following:
 - (a) A description in narrative form of the scope, structure, coverage and procedures of the proposed program; and
 - (b) A description, including organization charts, of the organization and structure of applicant, including:
- (A) The number of employees, occupation and general duties of each employee who will carry out the activities of the program;
- (B) An itemized estimate of the cost of establishing and administering the program, including the cost of personnel listed in paragraph (A) of this subsection, administrative and technical support;
- (C) An itemization of the source and amount of funding available to meet the costs listed in paragraph (B) of this subsection, including any restrictions or limitations upon this funding;
 - (D) A description of applicable procedures, including permit procedures;
 - (E) Copies of the permit form, application form and reporting form that will be used in the program;
 - (F) A complete description of the methods to be used to assure compliance and for enforcement of the program;
- (G) A description of the procedures to be used to coordinate information with the department, including the frequency of reporting and report content; and
- (H) A description of the procedures the applicant will use to comply with trade secret laws under ORS 192.500 and 468.910.
- (2) Within 60 days after receiving the application, the department will review the application for completeness and request any additional information needed. The department will notify the applicant in writing when the application is complete.
 - (3) Within 120 days after the application is complete, the department will:
- (a) Approve the proposal by submitting a signed agreement or contract to the applicant that outlines the terms and conditions under which the department agrees to delegate all or a portion of the UST program described in section (1) of this rule; or
- (b) Deny the application if the department finds the program described by the applicant is not equivalent to the department's UST program.
 - (4) The agreement or contract may be terminated by either party by providing 30 days prior notice in writing.

340-150-0620

Approval of More Stringent Performance Standards

- (1) Any unit of local government may petition the department for more stringent UST performance standards for UST systems in the vicinity of an underground water source. Administrative rules for more stringent performance standards may be proposed for adoption by the commission where the department finds that it is necessary to protect the underground water resource through more stringent UST performance standards.
 - (2) The petition must be made to the department in writing and must include the following information:
 - (a) A description of the underground water resource including, but not limited to:
 - (A) The geographical limits of the area where more stringent UST performance standards are required;
 - (B) The geographical limits of the groundwater recharge zone;
 - (C) The geographical limits of the underground water resource;
 - (D) The geology within both the recharge zone and the underground water resource;
 - (E) The location, size and present use of wells within the limits of the underground water resource; and
 - (F) The estimated capacity of the underground water resource.
 - (b) A description of the existing threats to the groundwater resource including, but not limited to:
 - (A) Location, type and number of USTs;
 - (B) Agricultural effluent and rainwater runoff;
 - (C) Industrial effluent and rainwater runoff; and

- (D) Rainwater runoff from roads and parking lots.
- (c) A description of the UST performance standards required, including UST technical standards, operating standards and administrative procedures; and
 - (d) A description of the emergency conditions, if the petitioner requests adoption of emergency rules.
- (3) Within 60 days after receiving the petition, the department will review the petition for completeness and request any additional information needed. The department will notify the petitioner in writing when the petition is complete.
 - (4) Within 120 days after the petition is complete, the department will recommend to the commission that:
 - (a) The department initiate rulemaking to implement the performance standards requested; or
- (b) The petition be denied if the department finds that more stringent UST performance standards are not necessary to protect the underground water resource.

APPENDIX A

OAR 340-150-0300

Installation of USTs and Piping

The following codes and standards may be used to comply with this rule:

- (1) American Petroleum Institute Publication 1615 (1996), "Installation of Underground Petroleum Storage System";
- (2) Petroleum Equipment Institute Publication RP100-2000 (2000), "Recommended Practices for Installation of Underground Liquid Storage Systems";
 - (3) National Fire Protection Association Standard 30 (2000), "Flammable and Combustible Liquids Code"; and
- (4) American Petroleum Institute Publication 2200 (1994), "Repairing Crude Oil, Liquified Petroleum Gas and Product Pipelines".

APPENDIX B

OAR 340-150-0300(3)

Installation of USTs and Piping

The following codes may be used for USTs or underground piping storing alcohol blends to comply with this section of the rule:

- (1) American Petroleum Institute Publication 1626 (1985), "Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Service Stations"; and
- (2) American Petroleum Institute Publication 1627 (1986), "Storing and Handling of Gasoline-Methanol/Cosolvent Blends at Distribution Terminals and Service Stations".

APPENDIX C

340-150-0310

Spill and Overfill Prevention Equipment and Requirements

The following codes and standards may be used to comply with this rule:

- (1) Transfer procedures described in National Fire Protection Association Publication 385 (1990);
- (2) Further guidance on spill and overfill prevention appears in:
- (a) American Petroleum Institute Publication 1621 (1993), "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets," and
 - (b) National Fire Protection Association Standard 30 (2000), "Flammable and Combustible Liquids Code".

APPENDIX D1-USTs

340-150-0320(2)

Corrosion Protection Performance Standards for USTs and Piping

The following standard may be used for USTs constructed of fiberglass-reinforced plastic to comply with this section of the rule:

Underwriters Laboratories Standard 1316 (1994), "Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products".

APPENDIX D2-Piping

340-150-0320(2)

Corrosion Protection Performance Standards for USTs and Piping

The following codes and standards may be used for underground piping constructed of fiberglass-reinforced plastic to comply with this section of the rule:

(1) Underwriters Laboratories Subject 971 (1995), "UL Listed Non-Metal Pipe";

00014426

- (2) Underwriters Laboratories Standard 567 (1996), "Pipe Connectors for Flammable and Combustible and LP Gas"; and
- (3) American Petroleum Institute Standard 2610 (1994), "Design, Construction, Operation, Maintenance and Inspection of Terminal & Tank Facilities".

APPENDIX E1-USTs

OAR 340-150-0320(3)

Corrosion Protection Performance Standards for USTs and Piping

The following codes and standards may be used for USTs constructed of steel or other metal to comply with this section of the rule:

- (1) Steel Tank Institute STI-P3-00 (2000), "Specification and Manual for External Corrosion Protection of Underground Steel Storage Tanks";
- (2) Underwriters Laboratories Standard 1746 (1993), "Corrosion Protection Systems for Underground Storage Tanks"; and
- (3) National Association of Corrosion Engineers Standard RP 0285-2002, Standard Recommended Practice: "Control of External Corrosion on Metallic Buried, Partially Buried or Submerged Liquid Storage Systems," and Underwriters Laboratories Standard 58, "Standard for Steel Underground Tanks for Flammable and Combustible Liquids".

APPENDIX E2-Piping

OAR 340-150-0320(3)

Corrosion Protection Performance Standards for USTs and Piping

The following codes and standards may be used for underground piping constructed of steel or other metal to comply with this section of the rule:

- (1) National Fire Protection Association Standard 30 (2000), "Flammable and Combustible Liquids Code";
- (2) American Petroleum Institute Publication 1615 (1996), "Installation of Underground Petroleum Storage Systems";
- (3) American Petroleum Institute Publication 1632 (1996), "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems";
 - (4) Steel Tank Institute -R922-00 (2000), "Specification for Permatank";
- (5) Steel Tank Institute -F961-00 (2000), "ACT-100-U Specification for External Corrosion Protection of Composite Steel Underground Storage Tanks";
- (6) National Association of Corrosion Engineers RP-0169-2002 (01-JUL-02), Standard Recommended Practice: "Control of External Corrosion on Underground or Submerged Metallic Piping Systems";
- (7) National Association of Corrosion Engineers Test Method TM 0101-2001 (2001), "Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems";
- (8) Steel Tank Institute -R892-91 (1991), "Recommended Practice for Corrosion Protection of Underground Piping Networks Associated with Liquid Storage and Dispensing Systems";
- (9) Steel Tank Institute -R972-98 (1998), "Recommended Practice for the Installation of Supplemental Anodes for STI-P3 USTs"; and
- (10) National Association of Corrosion Engineers Test Method TM 0497-2002 (2002), "Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems".

APPENDIX F

OAR 340-150-0320(4)

Corrosion Protection Performance Standards for USTs and Piping

The following codes may be used for USTs constructed of steel-fiberglass reinforced plastic composite to comply with this section of the rule:

- (1) Underwriters Laboratories Standard 1746 (1993), "Corrosion Protection Systems for Underground Storage Tanks";
- (2) Steel Tank Institute -F894-00 (2000), "ACT-100 Specification for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks"; and
- (3) Steel Tank Institute -F961-00 (2000), "ACT-100U Specification for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks".

APPENDIX G

340-150-0325

Operation and Maintenance of Corrosion Protection

The following standard may be used to comply with this rule:

The National Association of Corrosion Engineers Standard RP-0285-2002 (2002), "Standard Recommended Practice: Corrosion Control of Underground Storage Tank Systems by Cathodic Protection".

APPENDIX H

340-150-0350(3) UST System Repairs

340-150-0352 UST System Modifications and Additions

The following codes and standards may be used to comply with these rules:

- (1) National Fire Protection Association Standard 326 (1999), "Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning or Repair";
- (2) American Petroleum Institute Publication 1631 (2001), "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks";
- (3) National Association of Corrosion Engineers Standard RP-0285-2002, "Control of External Corrosion on Metallic Buried, Partially Buried or Submerged Liquid Storage Systems";
- (4) American Petroleum Institute Publication 1632 (1996), "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems";
- (5) Ken Wilcox Associates (1999), "Recommended Practice for Inspecting Buried Lined Steel Tanks Using a Video Camera";
- (6) National Association of Corrosion Engineers Standard RP-0178-95, "Recommended Practice: Design, Fabrication and Surface Finish of Metal Tanks and Vessels to be Lined for Chemical Immersion Service";
- (7) National Association of Corrosion Engineers Standard RP-0184-91 (1991), "Recommended Practice: Repair of Lining systems";
- (8) National Association of Corrosion Engineers Standard RP-0288-94 (1994), "Standard Recommended Practice: Inspection of Linings on Steel and Concrete";
- (9) Fiberglass Petroleum Tank & Pipe Institute Recommended Practice T-95-02 (1995), "Remanufacturing of Fiberglass Reinforced Underground Storage Tanks";
- (10) American Society of Testing and Materials G 158-98 (1998), "Standard Guide for Three Methods of Assessing Buried Steel Tanks"; and
- (11) American Society of Testing and Materials E 1990-98 (1998), "Standard Guide for Performing Evaluations of Underground Storage Tank Systems for Operational Compliance with 40 CFR, Part 280 Regulations".

APPENDIX I

OAR 340-150-0400

General Release Detection Requirements for All UST Systems

The following code may be used to comply with this rule:

American Society of Testing and Materials E 1526-93 (1993), "Standard Practice for Evaluating the Performance of Release Detection Systems for Underground Storage Tank Systems".

APPENDIX J

General Guidance Documents for UST Owners and Permittees

The following codes and standards may be useful for UST owners and permittees:

- (1) American Petroleum Institute Recommended Practice 2003 (1998), "Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents";
 - (2) American Petroleum Institute Publication 2005 (1996), "Service Station Safety";
- (3) National Association of Corrosion Engineers Standard RP 0177-95 (1995) Recommended Practice: "Mitigation of Alternating Current and Lightning Effects on Metallic Structures and Corrosion Systems";
 - (4) National Fire Protection Association 30A (1996), "Automotive and Marine Service Station Code";
- (5) National Fire Protection Association 385 (1990), "Standard for Tank Vehicles for Flammable and Combustible Liquids"; and
- (6) Underwriters Laboratories 58 (1996), Standard for Safety: "Steel Underground Tanks for Flammable and Combustible Liquids".

APPENDIX K

340-150-0180

Site Assessment Requirements for Permanent Closure or Change-In-Service

Written site assessment plans must be submitted to the department for review and approval before initiating:

- Permanent closure in-place;
- Change-in-service from regulated to nonregulated status; or
- Decommissioning an UST that contains a hazardous substance other than petroleum (by removal, closure in-place or change-in-service).

The site assessment plan may be prepared by completing a form provided by the department or the plan may be a written report that covers all elements of this Appendix. The requirements of OAR 340-150-0180(3) and (4) must be met. This Appendix includes the required information.

UST facility and permittee information:

Name and address of the UST facility, UST Facility ID number issued by DEQ and name, address and contact number for the permittee. The permittee must sign and date the completed report as true and correct.

Service provider and supervisor information:

Name, address and contact number for the service provider performing the work (including license number and expiration date) and supervisor assigned to the project (including license number and expiration date). The supervisor must sign and date the completed report as true and correct.

UST information:

For each UST: tank material or type, date installed, size, and contents. Include any information about tank history that could be significant (e.g., previous suspected or confirmed release reported, repairs, testing failures, etc.).

Type of decommissioning:

State which type of decommissioning will be performed: permanent closure in-place or change-in-service from regulated to nonregulated status for petroleum USTs or decommissioning an UST that contains a hazardous substance other than petroleum by removal, closure in-place or change-in-service.

Site diagram:

A site diagram (drawn approximately to scale) that notes the location of all USTs and underground piping, buildings and nearby properties must be attached to the site assessment plan. Note if there are any surface water bodies within ¼ mile of the UST facility or if any potential conduits exist that could spread contamination (e.g., water or sewer lines). Important: <u>Identify</u> the proposed location of all samples to be collected on the site diagram.

Site conditions:

The site assessment plan must address the possibility of encountering groundwater. If questionable, verify the depth to groundwater and be prepared with contingency sampling should groundwater be encountered.

If there were to be a release of a regulated substance during the decommissioning process, could surface water be
impacted, either directly or via conduits such as surface drainage systems? If yes, discuss strategy developed to prevent a
discharge to surface water or other contingency plans. Any release that results in sheen to surface waters must be reported
and cleaned up immediately.

Sample collection methods and analytical procedures:

Describe the sample collection and analytical methods to be used for this project. The Hydrocarbon Identification
analytical procedure specified in OAR 340-122-0218(1)(d) (NWTPH-HCID) must be used for determining whether a
confirmed petroleum release exists and then quantified by the appropriate method. For hazardous substances other than
petroleum, describe the specific analytical method to be used and sample collection procedures to be followed.

Soil sample locations:

The site assessment plan and site diagram must address where and how samples will be collected. General Information

- The UST and associated systems must be evaluated for contamination in all areas where contamination is likely to be present. If contamination is observed or suspected at any time during decommissioning, samples must be collected from the contaminated soil.
- If water is present in the UST pit, regardless of whether obvious contamination is or is not present, the department must be notified of this fact within 24 hours of discovery.
- If contamination is discovered, the permittee must report the release to the department within 24 hours. If not reported within 24 hours, the licensed service provider must provide the required notice to the department within 72 hours. If contamination is found to be present, removal of the UST may be required.
- Note: This Appendix addresses site assessment plans only. Correct industry practices or codes, safety measures and report preparation requirements for actual decommissioning of the UST system must be complied with at all times. USTs

UST Compliance Rules - Effective February 14, 2003

- All areas exposed during the uncovering of the UST when it is cut open and cleaned must be examined for signs of
 contamination. The UST must also be examined for holes by doing an examination of the interior after cleaning. Holes in
 the UST may be an indication of leakage and contamination.
- For an individual UST, four samples must be collected; one each from beneath both ends of the tank and on each side or as otherwise directed by the department (e.g., only two may be required if collected through a hole cut in the bottom of the tank). For multiple USTs in the same pit, a minimum of one sample must be collected for each 100 square feet of area in the pit. Soil samples must be collected from the native soils located no more than two feet beneath the UST pit in areas where contamination is most likely to be found.

Piping and Dispensers

- In cases where UST components (e.g., underground piping or dispensers) are located above an area to be excavated as
 part of the UST decommissioning, the area must first be visually assessed and soil samples collected if contamination is
 observed or suspected before conducting the excavation work.
 - For underground piping, a minimum of two soil samples must be collected from the native soils directly beneath the areas where contamination is most likely to be found and must be collected at 20-foot intervals;
 - Include information about the fate of lines containing a regulated substance. Regulated substance line trenches
 must be opened up and visually assessed during removal of the underground piping and soil samples collected
 from impacted areas.
 - If lines that contained a regulated substance are to remain in-place, samples must be collected from the native soils directly beneath the areas where contamination is observed, in addition to samples collected at 20 lineal foot intervals beginning at the dispensers.
 - For dispensers, at least one soil sample must be collected from the native soils directly beneath each dispenser.
 - Dispenser areas must also be evaluated for signs of contamination during the process of removal. If contamination is observed or suspected, samples must be collected from the contaminated soil. If contamination is not observed, collect one sample from beneath each dispenser.

APPENDIX L OAR 340-150-0200

Training Elements

The following topics must be covered in each UST system operator training session or by an equivalent training or testing method to meet UST system operation and maintenance training requirements:

- (1) General overview of department UST program administrative requirements:
- (a) Types of registration certificates (i.e., permits) and process for modification of registration certificates;
- (b) Notification process and general technical requirements for new UST installation, decommissioning, equipment replacement and retrofits, confirmed releases, suspected releases (including confirmation steps for suspected releases) and other system or test failures;
 - (c) Annual UST compliance fees and invoicing process;
 - (d) General requirements for maintaining financial responsibility;
 - (e) Department process for inspections and technical assistance resources available; and
 - (f) Enforcement process for violations.
- (2) General overview of other regulations pertaining to USTs, including, but not limited to, fire codes, occupational health and safety and any related industry practices pertaining to safety.
 - (3) Spill prevention and overfill protection:
 - (a) Rule requirements, including record keeping;
 - (b) Equipment requirements; and
 - (c) Operation and maintenance needs.
- (4) Release detection: For each type of release detection method listed in OAR 340-150-0400 through 340-150-0470 for both USTs and underground piping:
 - (a) Rule requirements, including record keeping;
 - (b) Monitoring and equipment, including third party approval requirements; and
 - (c) Operation and maintenance requirements.
 - (5) Corrosion protection, galvanic and impressed current:
 - (a) UST rule requirements (OAR chapter 340, division 150), including record keeping;
 - (b) Equipment requirements; and
 - (c) Operation and maintenance needs, including periodic inspections and testing.
 - (6) Lined USTs:
 - (a) Rule requirements, including record keeping; and
 - (b) Operation and maintenance needs, including periodic inspections and testing.

UST SYSTEM OPERATOR TRAINING PROGRAM

You have received this mailing because you are listed with the Department as an underground storage tank (UST) owner, permittee, owner of property where a regulated UST is located, or you are a licensed UST service provider.

To increase compliance and protect human health and the environment, the 2001 Oregon Legislature amended laws governing USTs adding a requirement for mandatory operator training. Revised compliance rules for USTs went into effect February 14, 2003. The Department has prepared this mailing to provide you with information about new UST system operator training requirements.

The requirements for the training of UST system operators may be found in Oregon Administrative Rule (OAR) 340-150-0200. DEQ mailed a copy of Division 150 (OAR 340-150-0001 through 340-150-0620) to all permittees and service providers in early March 2003 in an effort to educate the regulated community on the revised rules. Each regulated UST facility in Oregon that dispenses a regulated substance from an UST to a motor vehicle or container must employ trained personnel (i.e., a designated UST system operator) who can properly operate and maintain the UST system. Verification of training completion must be submitted to the Department by March 1, 2004.

One of the options for meeting the new training requirement is to receive training from a listed training vendor. A training vendor is a person, company or organization listed by the Department that has agreed to present UST system operator training to UST system operators using the training manual developed by the Department. A list of training vendors is on the back of this mailing.

Alternatively, you may take the International Code Council's (ICC) national UST System Operator examination administered by Promissor, a professional testing company. Upon successfully passing the examination, submit a copy of your score report to the Department. The Department will then send you a video free of charge that covers Oregon-specific UST rules and regulations. After submitting an affidavit stating that you viewed and understood the video, you would then be in compliance with the training requirement.

Training information, including the list of training vendors and known schedules of training dates and locations is posted on the Department's web page at www.deq.state.or.us/wmc/tank/ust-lust.htm. After reading through the information in this mailing or on our web site, please contact one of the listed training vendors if you plan to attend one of their training sessions. If you choose to take the national operator test instead, contact ICC at 800-423-6587 ext. 3208 to request a free candidate bulletin prior to scheduling the examination with Promissor at 800-275-8301. ICC's Candidate Bulletin can also be downloaded from their web site at www.iccsafe.org/certification/bulletin.htm. The cost to take the examination is \$75. Please contact Mitch Scheel at 503-229-6704 with any other questions you may have. Mitch can also be reached at 1-800-452-4011 toll free in Oregon or by e-mail at scheel.mitch@deq.state.or.us.

<u>lote</u>: If you no longer own a regulated UST, please notify us at 503-229-6652 or toll-free in Oregon at 1-800-742-7878.



Quality

Environmental Cleanup and Tanks Section Land Quality Division 811 SW 6th Avenue Portland, OR 97204

Phone: (503) 229-6704 (800) 452-4011 Fax: (503) 229-6954 Contact: Mitch Scheel

www.dea.state.or.us



June 2003



Oregon Department of Environmental Quality Underground Storage Tank Program

DEQ Listed Training Vendors

Ben Thomas Associates Contact: Ben Thomas

2838 Sunlight Drive

Clinton, Washington 98236 Ph: 866-301-TANK (8265)

Fax: 360-321-4996

E-Mail: bthomas@whidbey.com

http://www.bentanks.com

Century West Engineering

Contact: David Einolf

6650 SW Redwood Lane, Suite 300

Portland, Oregon 97224 Ph: 503-419-2130

Fax: 503-639-2710

E-Mail: ust@centurvwest.com

Compliance Solutions

Contact: Jeff Kline

10515 E 40th Avenue, Suite 203

Denver, Colorado 80239

Ph: 303-209-6161

Fax: 800-511-4944

E-Mail: comments@csregs.com

Contract Environmental Services

Contact: Jim Richards 2005 SW 198th Avenue Aloha, Oregon 97006

Ph: 503-201-3813 Fax: 503-642-2051

E-Mail: ces1jim@aol.com

Hahn & Associates

Contact: Phil Ralston 434 NW 6th, Suite 203 Portland, Oregon 97209

Ph: 503-796-0717 Fax: 503-227-2209

E-Mail: pralston@hahnasoc.com

Northwest Pump

Contact: Mike Joyner 2800 NW 31st Avenue Portland, Oregon 97210

Ph: 503-205-2109

Fax: 206-708-3133

E-Mail: mjoyner@nwpump.com

Petco, Inc.

Contact: Rod Pardi 210 E Albany Avenue

Kennewick Washington 99336

Ph: 509-582-1101 Fax: 509-586-7773

E-Mail: petcoincorporated@hotmail.com

Petcon, Inc.

Contact: Alex Ralston

P.O. Box 6225

Jackson, Mississippi 39288

Ph: 800-852-8374 Fax: 601-939-7312

E-Mail: Petcon@bellsouth.net

Pump, Pipe & Tank Services

Contact: Bob McHenry

P.O. Box 146

Talent, Oregon 97540

Ph: 541-535-6542

Fax: 541-535-5557

E-Mail: pmpipetank@aol.com

ZM Associates

Contact: Thomas Miller

P.O. Box 5457

Portland, Oregon 97228

Ph: 503-223-1589

Fax: 503-296-2961

E-Mail: Thomas@zmassociates.com

REVISED UST RULES NOW IN EFFECT

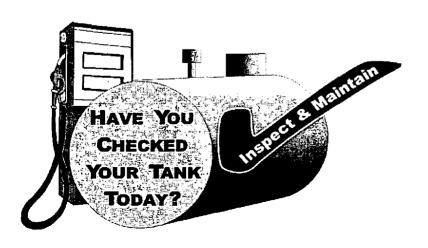
On January 30, 2003, the Environmental Quality Commission approved revisions to the rules pertaining to underground storage tanks (USTs) in Oregon. These rules were officially filed with the Secretary of State's Office on February 14, 2003, and became effective on that date. Note that these rule amendments only apply to regulated USTs; they do not apply to heating oil tanks.

You have received this mailing because you are listed with the Department as the permittee of at least one regulated UST in Oregon.

Since new requirements and significant changes are included in the revised rules, a copy of Division 150 (UST Compliance Rules) is enclosed with this mailing for your convenience. The Department strongly recommends that you read this mailing in its entirety as it describes rule amendments that affect owners and permittees of USTs.

The majority of the revisions to Division 150 were made to clarify existing rule language (particularly federal portions of the regulations) to make reading and understanding the rules easier for the regulated community. The revised rules also include minor changes to Divisions 122 (cleanup) and 160 (licensing) to allow for consistent use of terms and definitions. Revisions to the classification of UST violations in Division 12 (enforcement) were necessary to implement the expedited enforcement process.

A fact sheet is enclosed that describes the revised rules in more detail. To view and download all of the revised UST rules, please visit our web site at http://www.deq.state.or.us/wmc/tank/ust-lust.htm. Hard copies are also available by contacting the Land Quality Division reception desk at (503) 229-5913, leaving a message on our Helpline recording at 1-800-742-7878 (toll-free in Oregon) or by Email: tanks.info@deq.state.or.us.





State of Oregon
Department of
Environmental
Quality

Environmental Cleanup and Tanks Section Land Quality Division 811 SW 6th Avenue Portland, OR 97204 Phone: (503) 229-5769

(800) 452-4011 Fax: (503) 229-6954 Contact: Laurie McCulloch www.deg.state.or.us

Underground Storage Tank Program Update

Background

Revised compliance rules for Underground Storage Tanks (USTs) went into effect Feb. 14, 2003. To increase compliance and protect human health and the environment, the 2001 Oregon Legislature amended laws governing USTs that have been in place since 1988. The Oregon Department of Environmental Quality (DEQ) has prepared this fact sheet to provide you with information about these changes.

Because new requirements and significant changes are included in the revised rules, DEQ has mailed a copy of Oregon Administrative Rule (OAR) Division 150 (UST Compliance Rules) to all permittees and service providers in an effort to educate the regulated community on the revised rules.

As of January 2003, Oregon had 2,067 operating facilities with 6,111 regulated underground storage tanks.

Since the beginning of the UST Program in Oregon, releases of petroleum have been reported at 6,642 sites. Cleanup is complete on more than two thirds of these sites (nearly 4,800 facilities).

Who is affected by these rule changes?

These regulations are applicable to all owners and permittees of regulated USTs. They do not apply to heating oil tanks. Federal regulations promulgated by the U.S. Environmental Protection Agency (EPA) and previously adopted by DEQ have been incorporated into Oregon Administrative Rules (OAR) for Underground Storage Tanks (Division 150 rules). Requirements for financial responsibility (insurance) for petroleum USTs are included in Division 151 rules.

Tank owners, permittees and licensed UST service providers should read and be familiar with all divisions of Oregon Administrative Rules that pertain to their UST system or occupation. The two most significant requirements are the mandatory training for UST system operators and the expedited enforcement process (i.e., "tickets" for violations that are issued by an inspector while at a facility). DEQ will provide detailed guidance about these new

programs in separate documents expected to be completed in April 2003.

The majority of revisions to Division 150 rules were made to clarify existing rule language (particularly federal portions of the regulations) for the regulated business community.

The revised rules also include minor changes to state rules dealing with environmental cleanups (Division 12) and service providers (Division 160) to allow for consistent use of terms and definitions. Revisions to the classification of UST violations in enforcement rules (Division 112) were necessary to implement the expedited enforcement process.

Why the rules were changed

The primary purpose of DEQ's UST Compliance Program is to prevent and quickly detect leaks from USTs that could cause pollution to soil and groundwater. The proposed rule revisions improve leak detection methods by:

- Requiring new tank systems installed after March 1, 2003, to be accessible for inspection of overfill equipment. This allows for verification that equipment is in place and working properly.
- Requiring corrosion protection on all metallic USTs with no exclusions. Corrosion protection prevents holes that could cause leaks of regulated substances from USTs.
- Specifying conditions where an interstitial monitoring sensor may replace the requirements for annual piping leak tests on pressurized piping. This provision may reduce costs for some tank owners who use the interstitial monitoring method for leak detection.
- Limiting the use of less accurate leak detection methods by Dec. 22, 2008. This provision requires tank owners using inventory control and manual tank gauging (for USTs over 1,000 gallons in size) to switch to a more accurate leak detection method 10 years after the tank was installed or upgraded with corrosion protection, but in no case later than Dec. 22, 2008.

Specific rule changes

Specific rule changes include changes in existing fees and some new fees, the expedited enforcement process, classification of UST



State of Oregon Department of Environmental Quality

Land Quality Division

Underground Storage Tank Program 811 SW 6th Avenue Portland, OR 97204

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Last Updated: 3/04/03

violations, financial responsibility requirements and other changes to effect environmental protection.

Fees, administrative requirements

Definitions and administrative requirements are included in OAR 340-150-0001 through -0180. The changes made in fees by the 2001 Legislature went into effect July 2001 for all regulated USTs in Oregon. The rules include those fees in OAR 340-150-0110:

- \$85 annual per tank fee (increased from \$65);
- New \$400 fee for each new tank installed;
- New \$75 fee for permit modifications;
- New \$35 fee for late payment of annual compliance fee invoice; and
- Fees for tanks not previously permitted (capped at \$500 per tank).

Mandatory operator training

The revised rules include requirements and specifications for the one-time training of UST system operators in OAR 340-150-0200. Training must be completed by March 1, 2004. A hardship provision for some UST system operators is included in the new rule.

A requirement for the training and record keeping of UST facility attendants was deleted from the proposed rules based on public comments. To relieve the burdensome portion of this requirement, but still retain real environmental protection, DEQ instead opted to require emergency response information be available at any facility where fuel is dispensed.

Expedited enforcement process

Expedited enforcement is a pilot program for the assessment and expedited issuance of noncompliance penalties for specific UST violations (see OAR 340-150-0250). Individual penalty amounts of \$75 are specified in the rule; all other penalties are \$50. Penalties from a single inspection cannot total more than \$300. If penalties are more than \$300, participation in the expedited enforcement program is not allowed and enforcement must be conducted through the more formal process.

The pilot program ends Dec. 31, 2005. The expedited process is expected to save time for DEQ when enforcement is necessary. The pilot program will be evaluated during its implementation, and a recommendation on whether or not to continue it will be made to the Oregon Environmental Quality Commission.

Changes necessary to implement the expedited enforcement process required changes to the classification of UST violations (see OAR 340-

012-0067). Failure to have any financial responsibility mechanism is now a Class I violation (previously a Class II default), which is consistent with similar financial responsibility requirements for other DEQ programs.

UST compliance rules

Federal regulations have been incorporated into state administrative rules and reorganized for easier reading (see OAR 340-150-0300 through 0560). New rule sections have been added to improve and specifically address issues that are allowed by federal rules but not clearly stated. A list of reference documents is included as Appendices A-L in Division 150. This increases the readability of the proposed rule by listing information in appendices rather than including it in specific rule language.

Financial responsibility requirements

Federal regulations (40 CFR Part 280, Subpart H) are adopted by reference (see OAR 340-151-0001 through -0025) with some Oregon-specific changes and additions (see OAR 340-151-0025).

Changes pertaining to tank owners, reporting, used tanks and Statistical Inventory Reconciliation (SIR)

The following are some other changes or clarifications that have been made that may affect most tank owners and permittees at some point:

- Tank owners who do their own decommissioning or installation work must pass the same test as an UST supervisor, except that no license or fee by DEQ is required;
- When a facility is sold, all records pertaining to operation and maintenance of the USTs must be given to the new owner;
- All corrosion test failures must be reported to DEO;
- Used tanks cannot be reinstalled as "new" unless the tank manufacturer certifies that it meets all requirements for a new tank;
- Clarification that line leak detectors are required on all pressurized piping systems (sump sensors are not an acceptable alternative);
- A requirement to check and resolve problems noted with pressurized piping; and
- Use of the Statistical Inventory
 Reconciliation (SIR) leak detection method.
 The rule requires that results be available 22
 days after each 30-day period, plus four
 inconclusive results in a 12-month period
 requires that a different leak detection
 method be put in place.

There are other changes or clarifications that permittees should note. In the version of Division 150 that is now available, all significant changes have been highlighted for convenience to readers.

UST cleanup definitions

Minor changes were made to allow for consistent use of definitions with Division 150 (see OAR 340-122-0210).

UST service providers & supervisors

Minor changes were made to allow for consistent use of terms and definitions in Division 150 (see OAR 340-160-0005 through -0150). Changes were also made to delete outdated provisions and add new license fees that became effective July 2001 (see OAR 340-160-0150). These include:

- \$300 per year fee for service providers
- \$150 fee every two years for supervisors (up to four licenses with the same expiration date)

Financial responsibility

Compliance with financial responsibility requirements, or insurance, is a DEQ priority. Financial responsibility protects the facility owner or permittee by ensuring that when a petroleum release occurs, the facility will have the resources to do any necessary cleanup and remain a viable business. Financial responsibility protects all Oregonians by ensuring that gas stations, including stations in rural areas, can remain in business. It also ensures that the state is not burdened with the cleanup costs. It is only fair to make certain that all facilities in Oregon pay their share to protect the environment.

In summer 2002, DEQ began systematically requesting all facilities to submit proof of their financial responsibility. All facilities have now been asked to submit verification.

Facilities that do not have financial responsibility will be in violation and subject to enforcement action, which may include civil penalties and suspension of the facility's operating certificate.

Financial responsibility requirements include the following:

- Petroleum producers, refiners and marketers need \$1 million in insurance for 100 or fewer tanks, or \$2 million for more than 100 tanks.
- Nonmarketers need \$500,000 per occurrence
 if throughput is 10,000 gallons monthly or
 less, or \$1 million if throughput is more than
 10,000 gallons monthly. Aggregate coverage
 for nonmarketers is the same as for
 marketers.

• The primary options to demonstrate financial responsibility include the following: corporate guarantee, environmental insurance coverage (this is the most common form for small- to medium-sized businesses), surety bond, letter of credit, trust fund and self-insurance companies with a tangible net worth of at least \$10 million. Additional options are available for local governments.

Two important financial responsibility documents are available:

- Dollars and Sense: Financial Responsibility Requirements for Underground Storage Tanks (EPA publication 510-K-95-004)
- List of Known Insurance Providers for Underground Storage Tanks (EPA publication 510-B-00004)

Late & non-payment of compliance fees

DEQ thanks the many tank owners who promptly pay their annual tank permit compliance invoices every year. However, despite the fact that UST facilities receive invoices each January, DEQ continues to have problems with approximately 12 percent of tank owners who do not pay on time, or do not pay at all. As in any business, this gap in revenue affects DEQ's ability to perform activities that the Legislature directs the agency to do.

There is now a \$35 late fee imposed for every invoice that is not paid within 45 days after receipt of the invoice.

Avoid this fee by planning ahead. Try to set aside funds to pay your invoice soon after it is received. You can calculate what the fee for a particular year will be by multiplying the number of tanks you have by \$85. If you are having financial difficulties, call DEQ as soon as you receive the invoice and a payment schedule can be arranged.

For worst-case scenarios in which payment is not received after several notices, DEQ is required by law to refer the account to the Oregon Department of Revenue or a private agency for collection.

Did you receive this fact sheet, but you no longer own or operate USTs?

DEQ would like to hear from you if you no longer own or operate an underground storage tank or own property where a tank is located. This program update was mailed to everyone DEQ has on record as owning a tank, operating a tank (permittee) or owning property where a tank is located. If you no longer have any association

with underground tanks, please contact Steve Paiko, DEQ, Portland, at (503) 229-6652, or toll-free in Oregon at (800) 452-4011. If you know the facility ID number, please have this number available when contacting Steve.

Change in ownership?

If you are thinking of selling or leasing your interest in an underground storage tank to someone else, you may need a permit modification form.

Please note that the operating certificate for a UST facility automatically terminates within 120 days if you fail to notify DEQ of a change in:

- ownership of the property
- ownership of the tank
- permittee
- the nature of the activities and operations --see OAR 340-150-0102 (1).

Contact DEQ if you need the permit modification form, or get the forms from DEQ's Web site at

www.deq.state.or.us/wmc/tank/ust-lust.htm.

There is a \$75 fee for any permit modification.

Let DEQ know of work on your tank system

Let DEQ know if work on your tank system will take place at your facility. This is one of the most common violations DEQ encounters. Most tank owners and service providers know that they must notify DEQ in writing 30 days before installing or decommissioning a tank, and again verbally three days before actually starting the work. For any work that involves replacement of critical spill, overfill, leak detection and corrosion protection equipment and piping repair or replacement, DEQ must be notified in advance. Both the service provider and the owner can be cited for violations for failure to notify DEQ. When in doubt, call your local DEQ UST inspector and let them know what work is being performed.

Help sought in Operator Training Program

Individuals, companies or organizations that would like to provide training for Underground Storage Tank system operators are encouraged to contact DEQ now. Training vendors must register with DEQ and agree to provide training according to information provided in the training manual developed by the agency. For more information about presenting training sessions, please contact Mitch Scheel, Portland, at (503) 229-6704 or toll-free in Oregon at 1-800-452-4011.

For more information

The revised rules for UST compliance, financial responsibility and UST service providers are available in hard copy or on DEQ's Web site: www.deq.state.or.us/wmc/tank/ust-lust.htm

For hard copies, contact DEQ's Land Quality Division, Portland, at (503) 229-5913, or leave a message on our Help Line recording toll-free in Oregon at 1-800-742-7878.

Check our Web site often, as we will be adding new guidance documents and fact sheets as soon as they become available. DEQ will soon have written guidance for two topics: the UST system operators training and expedited enforcement program.

Contacting DEQ tank staff

DEQ Underground Storage Tank specialists are available at regional offices throughout the state.

In Northwest Oregon (Clatsop, Clackamas, Columbia, Multnomah, Tillamook and Washington counties):

 Portland, 2020 SW Fourth Ave., Suite 400, (503) 229-5263

In Western Oregon (Benton, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Polk and Yamhill counties):

- Salem office: 750 Front St. NE, Suite 120, (503) 378-8240
- Eugene office: 1102 Lincoln St., Suite 210, (541) 686-7838
- Medford office: 201 W. Main St., Suite 2-D, (541) 776-6010
- Coos Bay office: 340 N. Front St., (541) 269-2721

In Eastern Oregon (Baker, Crook, Deschutes. Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Umatilla, Union, Wallowa and Wasco counties):

- Bend office: 2146 NE Fourth, Suite 104, (541) 388-6146
- The Dalles office: Columbia Gorge Community College, 400 E. Scenic Drive, Building 2, (541) 298-7255
- Pendleton office: 700 SE Emigrant, Suite 330, (541) 276-4063.

Alternative formats

Alternative formats (such as Braille or large type) of this document can be made available. Contact DEQ's Office of Communications, Portland, for more information at (503) 229-5317.

PROPOSED UST RULES-PUBLIC INFORMATION PACKAGE

The Department of Environmental Quality (DEQ) is proposing to revise the regulations for regulated underground storage tanks (USTs). Note that these proposed rule amendments only apply to regulated USTs; they do not apply to heating oil tanks.

You have received this mailing because you are listed as a tank owner, permittee, owner of property where a regulated tank is located, UST service provider, UST supervisor or other interested person.

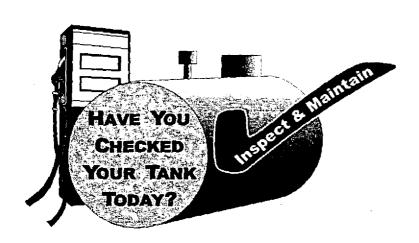
The Department strongly recommends that you read this package in its entirety as it contains wide-ranging rule proposals that will affect owners and permittees of regulated USTs.

We encourage you to attend one of the 14 public hearings to be held around the state from September 19 – October 9, 2002, to hear more information on the proposed rule changes, ask questions and submit comments. The public comment period begins on September. 1, 2002 and ends on October 14, 2002.

Please note that the deadline for submittal of written comments is <u>5:00 pm</u>, October, 14, 2002.

A fact sheet is enclosed with this mailing that describes our current inspection process for regulated UST facilities. For more information on DEQ's UST Program, visit our web site at http://www.deq.state.or.us/wmc/tanks/ust-lust.htm.

Note: If you no longer own a regulated UST, please notify us at 503-229-6652 or toll free in Oregon at 1-800-742-7878.





Quality

Environmental Cleanup and Tanks Section Land Quality Division 811 SW 6th Avenue

Portland, OR 97204

Phone: (503) 229-5769 (800) 452-4011 Fax: (503) 229-6954 Contact: Laurie McCulloch www.deg.state.or.us

State of Oregon Department of Environmental Quality

Memorandum

Date:

August 21, 2002

To:

Interested and Affected Public

Subject:

Rulemaking Proposal and Rulemaking Statements

Underground Storage Tank Compliance Rule Revisions

This memorandum¹ contains information on a proposal by the Department of Environmental Quality (Department) to amend rules regarding requirements for underground storage tanks (USTs) found in Oregon Administrative Rules (OAR) Chapter 340, Divisions 150, 151, 160, 122 and 12. Please note that these proposed rule amendments only apply to regulated USTs; they do not apply to heating oil tanks.

The proposed rule amendments would:

- Modify leak detection and prevention requirements for UST systems;
- Add mandatory training for UST system operators (must complete training by January 1, 2004):
- Provide a new, expedited enforcement process for some violations and revise the classification of UST violations used in the process; and
- Reformat and clarify language of federal UST regulations incorporated into proposed Oregon Administrative Rules.
- Make minor changes to definitions in the UST Cleanup rules and UST Service Provider rules, including clarifying license procedure changes.

The Commission has the statutory authority to address this issue under Oregon Revised Statutes (ORS) 466.746. These rules implement ORS 466.706 through 446.835, 466.994 and 466.995.

What's in this Package?

Attachments to this memorandum provide details on the proposal as follows:

Attachment A The official statement describing the fiscal and economic impact of the

proposed rule (required by ORS 183.335).

Attachment B A statement providing assurance that the proposed rules are consistent with

statewide land use goals and compatible with local land use plans.

Attachment C Questions to be answered to reveal potential justification for differing from

federal requirements.

Attachment D List of UST Advisory Committee members.

Please see the contact information section at the end of this notice for information on how to obtain a copy of the draft rules.

Background on Development of the Rulemaking Proposal

Why is there a need for the rule?

Amendments by the 2001 legislature (House Bill 2264) to laws governing underground storage tanks require the Department to adopt rules to implement:

A mandatory training program for all UST system operators; and

¹ This document is available in alternate format (e.g., large print, braille) upon request. Please contact the Department's Office of Communication and Outreach at 503-229-5713 or toll free in Oregon at 1-800-452-4011 to request an alternate format.

A pilot program to expedite enforcement of UST compliance violations.

This rulemaking proposal improves existing UST regulations (federal rules previously adopted by reference) by reformatting and clarifying language, thereby making it easier for tank owners to understand and comply with the requirements. Also, Oregon-specific additions to the federal regulations adopted by reference are proposed to improve leak detection and prevention requirements for USTs, which is an important pollution prevention aspect of the UST program (refer to Attachment C for more information).

How was the rule developed?

Between October 2001 and May 2002, the UST Advisory Committee assisted the Department in the development of proposed rules (refer to Attachment D for a list of Committee members). Committee members and Department staff participated in three subcommittees to focus on technical, enforcement and training issues. The work produced by each subcommittee was presented to the full UST Advisory Committee as a rough draft in February 2002. The Committee provided input on several policy issues and recommended changes to rule language after discussion of each rule section.

Documents relied upon in the development of this rulemaking proposal include:

- Oregon Administrative Rules, Chapter 340, Division 150 (UST regulations) & Division 12 (Enforcement Procedure and Civil Penalties)
- Federal regulations for USTs, 40 CFR Part 280, Subparts A through H
- Oregon UST statutes, ORS 466.706 through 466.835, 466.994 and 466.995

To review these documents, please refer to the contact information section at the end of this notice.

Who does this rule affect including the public, regulated community or other agencies, and how does it affect these groups?

The proposed rules principally affect existing and future owners of regulated USTs and persons designated as UST system operators (who are responsible for the daily operation of the USTs). Local government and state agencies will be affected if they own UST systems. The general public will benefit from the improved environmental protection of groundwater resources that compliance with these proposed rule amendments achieves. UST equipment vendors, petroleum industry organizations and environmental consulting firms interested in providing operator training may be interested in this rulemaking proposal.

Although all tank owners will be affected by the proposed rules, small business (i.e., individuals who own one facility) will be affected the most by the new requirements for training and enforcement. The potential financial benefits and impacts of these regulations are discussed in Attachment A.

How will the rule be implemented?

The Department will notify all known tank owners and permittees of UST facilities, property owners where USTs are known to be located, legislative officials, licensed UST service providers and other interested parties of the proposed changes through direct mailing(s), notices through local media and during 14 public hearings to be held statewide.

If this proposal is adopted by the Commission, the Department will provide guidance documents for tank owners to explain the UST system operator training requirements, new enforcement process and general rule requirements in "reader friendly" formats.

Are there time constraints?

Yes. The Department plans to submit an application for final authorization of the UST Program to the Environmental Protection Agency by January 31, 2003. Any proposed rule amendments must first be filed with the Secretary of State's office to meet application requirements.

Hearing Process Details

The Department is conducting public hearings¹ at which comments will be accepted either orally or in writing. The hearings will be held as follows:

Date: Time: Place:	September 19, 2002 7:00 pm Clatsop Comm. College 1653 Jerome Avenue Patriot 326 Astoria	Date: Time: Place:	September 20, 2002 7:00 pm ODOT 3012 Island Avenue La Grande	Date: Time: Place:	September 23, 2002 7:00 pm DEQ Headquarters 811 SW 6 th Avenue Conf. Room 3A Portland
Date: Time: Place:	September 30, 2002 7:00 pm DEQ Pendleton Office 700 SE Emigrant Suite 330 Pendleton	Date: Time: Place:	October 1, 2002 2:00 pm Medford City Hall 411 W 8 th Room 340 Medford	Date: Time: Place:	October 1, 2002 7:00 pm Columbia Gorge Comm. College 400 E Scenic Drive Bldg. 1, Rm. 1.162 The Dalles
Date: Time: Place:	October 2, 2002 7:00 pm Treasure Valley Comm. College 650 College Blvd. Work Force Training Center – Room 1 Ontario	Date: Time: Place:	October 3, 2002 7:00 pm DEQ Bend Office 2146 NE Fourth #104 Bend	Date: Time: Place:	October 4, 2002 2:00 pm DEQ Salem Office 750 Front Street, NE Suite 120 Salem
Date: Time: Place:	October 7, 2002 2:00 pm DEQ Headquarters 811 SW 6 th Avenue Conf. Room 3A Portland	Date: Time: Place:	October 7, 2002 7:00 pm Klamath County Government Center 305 Main Street Room 219 Klamath Falls	Date: Time: Place:	October 8, 2002 2:00 pm DEQ Eugene Office 1102 Lincoln Suite 210 Eugene
Date: Time: Place:	October 8, 2002 7:00 pm Coos Bay Public Library 525 Anderson Myrtlewood Room Coos Bay	Date: Time: Place:	October 9, 2002 7:00 pm Tillamook PUD 1115 Pacific Avenue Carl Rawe Meeting Rm Tillamook	÷	

The Department will hold an information session including a video presentation overview of the proposed rules approximately 30 minutes prior to the start of each hearing. Department staff will be available to answer questions before the hearing starts. The time listed above is the start time of the information session.

Deadline for submittal of Written Comments: Must be received by: 5:00 pm, Oct. 14, 2002

¹ Please notify DEQ about any special physical or language accommodations you may need as far in advance of the hearing as possible. To make these arrangements, please contact the Department's Office of Communication and Outreach at 503-229-5317 or toll free in Oregon at 1-800-452-4011. People with hearing impairments may call the Department's TDD number at 503-229-6993.

UST Compliance Rule Revisions August 21, 2002 Page 4

Written comments may be presented at a hearing or to the Department any time prior to the date and time noted above. Comments may be submitted by facsimile, e-mail¹, or mailed to the address listed in the contact information section at the end of this notice. The Department cannot accept comments from any party after the deadline for submission of comments has passed. To be considered, your comments must be received prior to the close of the comment period.

What Happens After the Public Comment Period Closes?

Following closure of the public comment period, the Department will prepare a report which summarizes the oral testimony presented at the hearings and written comments submitted during the public comment period. The Commission will receive a copy of the Presiding Officer's report. Each public hearing will be tape recorded, but the tape will not be transcribed.

The Department will review and evaluate the rulemaking proposal in light of all information received during the comment period. Following this review, the rules may be presented to the Commission as originally proposed or with modifications made in response to public comments received.

The Commission will consider the Department's recommendation for rule adoption during one of its regularly scheduled public meetings. The targeted meeting date for consideration of this rulemaking proposal is December 13, 2002, in Portland. This date may be delayed if needed to provide additional time for evaluation and response to comments received during the public comment period.

You will be notified of the time and place for final Commission action if you present oral testimony at the hearing or submit written comments during the comment period. Otherwise, if you wish to be kept advised of this proceeding, you should request that your name be placed on a mailing list regarding this proposal.

Contact for More Information

If you would like more information on this rulemaking proposal, to receive a hard copy of the proposed rules, to have your name added to a mailing list, or to submit written comments, please contact:

Laurie McCulloch Senior UST Policy Coordinator 811 SW Sixth Avenue

Toll Free in Oregon: 1-800-452-4011 Facsimile: 503-229-6954

Direct Phone: 503-229-5769

Portland, OR 97204

E-mail: mcculloch.laurie@deg.state.or.us

Copies of the draft rules will be available on or before September 1, 2002 on

DEQ's website at

http://www.deg.state.or.us/wmc/tanks/ust-lust.htm, or hard copy by request.

NOTE REGARDING SUBMISSION OF WRITTEN COMMENTS; E-MAIL COMMENTS WILL BE ACKNOWLEDGED IMMEDIATELY. IF THERE IS A DELAY BETWEEN SERVERS, E-MAILS MAY NOT BE RECEIVED BEFORE THE DEADLINE. E-MAIL WILL NOT BE CONSIDERED RECEIVED UNLESS THE SENDER RECEIVES AN ANCKNOWLEDGEMENT OR RECEIPT.

DEPARTMENT OF ENVIRONMENTAL QUALITY Chapter 340 Proposed Rulemaking STATEMENT OF NEED AND FISCAL AND ECONOMIC IMPACT

Underground Storage Tank Compliance Rule Revisions Attachment A

This form accompanies a Notice of Proposed Rulemaking

Title of Proposed Rulemaking:

Underground Storage Tank Compliance Rule Revisions

Need for the Rules

Amendments by the 2001 legislature (House Bill 2264) to laws governing underground storage tanks require the Department to adopt rules to implement:

- A mandatory training program for all UST system operators; and
- A pilot program to expedite enforcement of UST compliance violations.

This rulemaking proposal also improves existing UST regulations in Oregon that were previously adopted by reference to federal rules. The proposed amendments reformat and clarify the existing rules, making it easier for tank owners to understand and comply with the requirements. Oregon-specific additions to federal regulations are proposed to improve leak detection and prevention requirements for USTs, which is an important pollution prevention aspect of the UST program.

Documents Relied Upon for Rulemaking

- Oregon Administrative Rules, Chapter 340, Division 150 (UST regulations) & Division 12 (Enforcement Procedure and Civil Penalties)
- Federal regulations for USTs, 40 CFR Part 280, Subparts A through H
- Oregon UST statutes, ORS 466.706 through 466.835, 466.994 and 466.995

Copies of these documents are available for review at the DEQ Headquarters office, UST Program (8th Floor) 811 SW 6th Avenue, Portland, Oregon or on our web page at www.deg.state.or.us/wmc/tank/ust-lust.htm.

Fiscal and Economic Impact Overview

There is no economic impact on tank owners expected as a result of the proposed revisions to existing state and federal UST regulations; some new requirements that are expected to have a net neutral cost impact are discussed on page two of this statement. However, the two new requirements for UST operator training and the expedited enforcement process are anticipated to have the following economic impact on all tank owners:

- Economic impact for added costs ranging from \$50 to \$250 to obtain training from private vendors; and
- Economic benefit through the potential for reduced cost of enforcement penalties with expedited process vs. traditional enforcement penalties.

General public

There is no direct economic impact on the general public as a result of the proposed rule revisions. The one-time cost to have UST system operators trained is not anticipated to result in increased costs of motor fuel or services provided by non-retail tank owners.

Small Business

The mandatory operator training requirements and the expedited enforcement process will have some financial impact on all tank owners regardless of the size of the business. Very small business owners (e.g., individuals who own only one UST facility) will likely be affected the most.

Since penalties associated with violations under the expedited enforcement process (\$50 to \$75 for each violation) are smaller than a tank owner would otherwise experience with traditional enforcement (generally greater than \$1,000), there is an anticipated economic benefit to small business owners who would also have received a penalty under the current enforcement process. Some businesses may receive minimal penalties under this new expedited process that otherwise would not currently receive penalties due to current enforcement guidance and program priorities.

Although the anticipated cost of training is relatively low, it is possible that some small business owners, especially in rural areas, may need to close their business for one to two days to attend a training session. To address this concern, a hardship provision is included in the Attachment A, Page 1

proposed rules which allow owners of a single retail facility to independently review training materials developed by the Department in lieu of attending an in-person training session.

Large Business

Large business owners would experience the same potential financial effect as small business owners. Although the cost of training is multiplied by the number of UST system operators that a business owner employs, some large business owners may choose to conduct their own training sessions, which would likely result in savings in both dollars and the time spent by employees to attend the training.

Local Government

Local governments owning regulated USTs will be affected by the operator training and enforcement requirements the same as either large or small business owners.

State Agencies DEQ

The proposed amendments will increase costs for the Department to implement the operator training program. The Department will use existing staff resources to develop a training manual to support training presented by vendors (approx. 0.3 FTE for two months). In early 2004, the Department will use existing staff (approx. 0.5 FTE for three months) to verify and enforce initial compliance with the operator training requirements and to audit trainers. After this initial period, the Department expects only minimal resources will be required to periodically audit an estimated 5-6 vendors and industry organizations that will provide the training to UST System Operators.

The new enforcement process may reduce the time required by inspectors for UST enforcement activities. Because much of the time spent on enforcement activities is in ensuring that tank owners correct violations, actual resource savings may not be achieved unless tank owners make an effort to ensure they are in compliance before the Department inspects their facility. The Department will provide guidance documents to aid tank owners in this effort.

Other agencies

State agencies owning regulated USTs will be affected the same as either large or small business owners.

Assumptions

The cost to tank owners to obtain the required operator training is estimated to range from \$50 to \$250 per person depending upon the type of training option selected:

\$ 50 - \$ 75 Training provided by industry groups using training manual developed by the Department. \$ 70 - \$ 80 Standardized national proficiency test (does not include training).

\$200 - \$225 On-line, web-based training and testing program provided by a private vendor.

\$200 - \$250 Training course presented in several different states by a private vendor.

The cost for large business owners to conduct their own training program has not been estimated. Because most companies that own numerous UST facilities already have a training program in place, minor changes to an existing program may be all that is required.

Neutral Costs and Voluntary Changes

There are some proposed rule changes that could have a fiscal impact, but these have been evaluated and determined to be either a voluntary expense or have a net neutral cost.

- New tank systems installed after January 1, 2003 must have access to inspect overfill equipment. Most
 new facilities are built to allow access, as it is important to check overfill equipment. Existing rules
 require tank owners to provide proof that the equipment operates properly. Making this requirement
 clear in rule now could potentially save an owner the cost of removing concrete later.
- Requiring all metal tanks to have corrosion protection without an exception process in rule. Very few
 facilities in Oregon are located in areas where the combination of geologic conditions and climate
 would not cause corrosion to metal tanks. The cost of the evaluation by an expert could be as much as
 the cost of adding corrosion to a single tank. However, if a tank owner could demonstrate that corrosion
 protection was not technically necessary (and proving it was cost effective for them), existing statutes
 allow a person to request a variance from the rules. By deleting this option from the rules, it avoids the
 existing problem of some tank owners spending funds to try to demonstrate that corrosion protection is
 not needed, thinking that it will save them money.
- Specifying conditions where an interstitial monitoring sensor may replace the requirement for annual
 piping leak tests on pressurized piping. Although allowing this exception for additional testing may
 reduce operating costs, it is unknown how many tank owners may choose to do this or if their
 equipment meets the conditions for exceptions.
- Limiting the use of less accurate leak detection methods after December 22, 2008. Existing rules limit
 use of inventory control and manual tank gauging methods to 10 years after installation or date
 corrosion protection was added. The latest date for tanks to be in compliance was December 22, 1998.
 With new technologies available, it would very unusual for a new tank to be installed now using one of
 these methods as the sole means of leak detection. Setting a final date gives certainty to tank owners.

Attachment A, Page 2

 Tank owners must pass a national proficiency examination to install or decommission their own tanks. The decision to perform the work themselves is voluntary. The cost for an examination is \$70-\$80.

Housing Costs

The Department has determined that this proposed rulemaking will have no effect on the cost of development of a 6,000 square foot parcel and the construction of a 1,200 square foot detached single family dwelling on that parcel.

Administrative Rule **Advisory Committee**

Between October 2001 and July 2002, the UST Advisory Committee assisted the Department in the development of the proposed rule revisions. Committee members and Department staff participated in three subcommittees to focus on technical, enforcement and training issues. The work produced by each subcommittee was presented to the full UST Advisory Committee as a rough draft in February 2002. The Committee provided input on several policy issues and recommended changes to rule language after discussion of each rule section.

Laurie J. McCulloch, Rule Writer Printed name

Jim Roys, Budget Manager Printed name

8 20 02 Date

DEPARTMENT OF ENVIRONMENTAL QUALITY Chapter 340 Proposed Rulemaking LAND USE EVALUATION STATEMENT

Underground Storage Tank Compliance Rule Revisions Attachment B

1. Explain the purpose of the proposed rules.

This proposal would amend rules regarding requirements for underground storage tanks (UST) found in OAR Chapter 340, Divisions 150, 151 and 12. The proposed rule amendments would:

- Modify leak detection and prevention requirements for UST systems;
- Add mandatory training for UST system operators (must complete training by January 1, 2004);
- Provide a new, expedited enforcement process and revise the classification of UST violations used in the process; and
- Reformat and clarify language of federal UST regulations incorporated into proposed Oregon Administrative Rules.

Note that these proposed rule amendments pertain to regulated USTs and do not include heating oil tanks.

2. Do the proposed rules affect existing rules, programs or activities that are considered land use programs in the DEQ State Agency Coordination (SAC) Program? ✓ No

In the space below, state if the proposed rules are considered programs affecting land use. State the criteria and reasons for the determination.

The permit requirements for installation, operation and decommissioning of underground storage tanks have not previously been identified as a program affecting land use. The proposed amendments to the underground storage tank rules are not actions that would cause the Department to change its determination regarding land use.

3. If the proposed rules have been determined a land use program under 2. above, but are not subject to existing land use compliance and compatibility procedures, explain the new procedures the Department will use to ensure compliance and compatibility

Not applicable.

Dick Pedersen

Administrator

Approve

Land Quality Division

Roberta Young

Intergovernmental Coordinator

Date

Attachment B, Page 1 of 1

DEPARTMENT OF ENVIRONMENTAL QUALITY Chapter 340 Proposed Rulemaking REPLATIONSHIP TO FEDERAL REQUIREMENTS

Underground Storage Tank Compliance Rule Revisions Attachment C

Answers to the following questions identify how the proposed rulemaking relates to federal requirements and potential justification for differing from federal requirements. The questions are required by OAR 340-011-0029.

1. Are there federal requirements that are applicable to this situation? If so, exactly what are they?

The federal regulations pertaining to underground storage tanks (USTs or tanks) were promulgated by the Environmental Protection Agency (EPA) in 1988 (40 CFR Part 280 Subparts A-H). The Oregon Department of Environmental Quality (DEQ) adopted these regulations with several minor modifications (OAR 340-150-0003) in 1990. Oregon formally adopted requirements for financial responsibility (insurance) in 1998.

The proposed amendments are more stringent or broader in scope than existing federal requirements in the following ways:

Broader:

- Adds requirement for operators of UST systems to obtain training in the operation and maintenance of USTs. There is no federal requirement for training.
- Provides greater efficiency for DEQ and more certainty for tank owners in enforcement of violations. Federal UST regulations do not include enforcement elements.
- Ensures that tank owners who install, decommission or test their own tanks have the technical knowledge to do so safely and correctly by adding the requirement that owners take the same proficiency examination as UST supervisors. There is no federal requirement for proficiency testing of persons who perform work on USTs.

More stringent:

- Improves leak detection and prevention requirements through additional reporting requirements for leak test failures and changes in equipment. Federal requirements have only basic reporting requirements for reporting releases, suspected releases, and installation and decommissioning of USTs.
- Ensures tank owners maintain coverage to pay for cleanup of any leaks that occur by adding a requirement for tank owners and insurance companies to notify DEQ when insurance coverage is canceled or not renewed. Federal requirements only require notification when an owner's coverage is canceled and they have failed to obtain another financial responsibility mechanism.
- Requires used USTs that have been removed from the ground be certified by an UST manufacturer in writing before the UST can be reused at the same or another location. Federal requirements only require that the UST must meet requirements for new tanks without addressing the reuse of USTs.

2. Are the applicable federal requirements performance based, technology based, or both with the most stringent controlling?

UST requirements are predominantly performance based.

Attachment C, Page 1

3. Do the applicable federal requirements specifically address the issues that are of concern in Oregon? Was data or information that would reasonably reflect Oregon's concern and situation considered in the federal process that established the federal requirements?

Yes.

4. Will the proposed requirement improve the ability of the regulated community to comply in a more cost effective way by clarifying confusing or potentially conflicting requirements (within or cross-media), increasing certainty, or preventing or reducing the need for costly retrofit to meet more stringent requirements later?

Yes. Existing federal regulations can be difficult to understand. The proposed rules clearly explain what actions a tank owner must take to comply with the regulations.

5. Is there a timing issue which might justify changing the time frame for implementation of federal requirements?

No.

6. Will the proposed requirement assist in establishing and maintaining a reasonable margin for accommodation of uncertainty and future growth?

Not applicable.

7. Does the proposed requirement establish or maintain reasonable equity in the requirements for various sources? (level the playing field)

Yes. The proposed revisions clarify the UST requirements so all users can better understand the regulations. The notification requirement when insurance is canceled or not renewed allows DEQ to verify that tank owners maintain a financial responsibility mechanism at all times; this ensures that some tank owners do not have a financial advantage over others by not paying premiums.

8. Would others face increased costs if a more stringent rule is not enacted?

Possibly. Most of the proposed modifications to federal rules improve leak detection efforts and ensure tank owners maintain coverage to pay for the cleanup of any leaks that do occur. Without these revisions, the public and nearby business could be affected by the pollution that results or the state may be required to bear the expense of cleanup.

9. Does the proposed requirement include procedural requirements, reporting or monitoring requirements that are different from applicable federal requirements? If so, Why? What is the "compelling reason" for different procedural, reporting or monitoring requirements?

Yes. The reasons why proposed procedural, reporting or monitoring requirements are broader or more stringent than federal (refer to question no. 1.) are detailed below:

- DEQ must be notified when an UST system is temporarily closed, corrosion tank tightness tests fail, release to a secondary containment system occurs, or financial responsibility insurance is canceled or not renewed.
 - These changes allow DEQ to determine trends for different types of UST systems or leak prevention measures and ensure that all permit requirements are met. Without insurance, the cost of cleanup could bankrupt a company and require the state to pay for it.
- Tank owners must pass a national examination to install or decommission their own tanks.
 - Tank owners who do their own work must be able to do so safely and properly to prevent leaks.

Attachment C, Page 2

UST Compliance Rule Revisions Relationship to Federal Requirements

- Repaired and used USTs must be certified by a tank manufacturer as meeting all performance standards before the UST can be operated.
 - Prevents leaks from defective USTs and tank owners avoid additional costs of replacement if defect found after installation is complete.
- Mandatory training of operators.
 - Almost 70% of the facilities inspected by DEQ do not meet release detection requirements.
 Operator training is necessary to ensure that UST systems are maintained and operated correctly to prevent or detect leaks.
- A Pilot program for enforcement process.
 - New process expedites enforcement through the use of "tickets" instead of traditional civil penalties. Reduces time spent on enforcement activities by DEQ and immediately informs tank owners of problems and actions necessary to correct violations while the inspector is present to explain details and provide technical assistance. Penalty amounts in the pilot program are much lower than traditional civil penalties. Process is similar to enforcement process used by the EPA.
- 10. Is demonstrated technology available to comply with the proposed requirement? Yes.
- 11. Will the proposed requirement contribute to the prevention of pollution or address a potential problem and represent a more cost effective environmental gain?

Yes. The primary purpose of the UST compliance program is to prevent and quickly detect leaks from USTs that could cause pollution to soil and groundwater. The proposed rule revisions improve leak detection methods or prevent leaks by:

- Requiring new tank systems installed after January 1, 2003 to be accessible for inspection of overfill equipment. This proposal allows verification that equipment is in-place and working properly.
- Requiring corrosion protection on all metallic USTs with no exclusions. Corrosion protection prevents holes from developing in USTs that could leak regulated substances.
- Specifying conditions where an interstitial monitoring sensor may replace the requirement for annual piping leak tests on pressurized piping. This provision may reduce costs for some tank owners that use the interstitial monitoring method for leak detection.
- Limiting the use of less accurate leak detection method by December 22, 2008. This provision requires tank owners using inventory control and manual tank gauging (for USTs over 1,000 gallons in size) to switch to a more accurate leak detection method after this date.

DEPARTMENT OF ENVIRONMENTAL QUALITY Chapter 340 Proposed Rulemaking LIST OF UST ADVISORY COMMITTEE MEMBERS

Underground Storage Tank Compliance Rule Revisions Attachment D

<u>Name</u>	Affiliation	Address
Ron Bergeson	Bergeson-Boese & Assoc.	65 Centennial Loop, Eugene
Jim Hickey	Environmental Insurance Agency	P.O. Box 23605, Portland
Steve Fletcher	Northwest Pump & Equipment	2800 NW 31 st , Portland
Cliff Olson	Marc Nelson Oil Products	1555 Silverton Rd, NE, Salem
Nicoletta Endres	Oregon Gasoline Dealers Assoc.	P.O. Box 2285, Lake Oswego
Chris Moul	ARCO	P.O. Box 820001, Portland
Brian Doherty	Miller Nash	111 SW 5 th , Portland
Phil Murray	Truax Harris Energy	P.O. Box 607, Wilsonville
Steve O'Toole	Oregon Petroleum Marketers Assoc.	7070 SW Fir Loop, Suite 150, Tigard
Bruce Kwasney	Ace Tank	5107 NE 158 th , Portland
Kent Elliott	Elliott, Powell, Baden & Baker	1521 SW Salmon, Portland

UST Facility Inspections

Background

The Oregon Department of Environmental Quality (DEQ) Underground Storage Tank (UST) Program has begun a program of regular inspections at gas stations and other facilities that operate underground storage tanks.

Regular inspections, combined with technical assistance and training for tank owner/operators and an effective enforcement process, are part of an overall strategy to ensure that all USTs are operated and maintained so that leaks are prevented or detected early and Oregon's groundwater is protected from releases from these facilities.

This fact sheet provides information about the method DEQ uses to select facilities for inspection and the information that is available to help a tank owner prepare for an inspection.

All operating UST facilities were required to come into compliance with state and federal requirements by December 1998. The requirements addressed the type of equipment they were required to use and how to operate and maintain that equipment. Recent inspections by DEQ indicate that not all facilities have the required equipment in place, and very few (only 1/3 of inspected facilities) are operating and maintaining the equipment they have so that it could prevent a release or provide early detection of a release to the environment.

Even more concerning is the fact that DEQ has documented catastrophic tank releases from a few operating facilities in the state that went completely undetected. These releases have impacted groundwater, soil and surface waters of the state. In some cases, they have also required that individuals be evacuated from neighboring buildings.

Financial verification

In addition to inspecting facilities, DEQ is also verifying that all tank owners meet requirements for financial responsibility (i.e., insurance). DEQ will check every regulated UST facility between now and early 2003.

Whether a facility will be inspected next week or next year, DEQ urges all tank owners to review what is required for equipment operation and maintenance at their site now. This is the best way to protect the environment from the impact of a release from underground storage tanks.

Selection criteria

DEQ will routinely inspect facilities for compliance with equipment and operation/ maintenance requirements. The selection criteria used each year may vary. DEQ has developed specific criteria in order to ensure that it:

- Inspects the tanks most likely to leak or with the greatest potential environmental impact if a leak does occur;
- Leverages limited DEQ resources (trained inspectors and funding); and
- Has a random sample from around the state.

DEQ has already completed 155 inspections, and will be inspecting as many facilities in the future as our resources will allow.

These facilities are selected based on a combination of the following criteria:

- Tank age and material (i.e., facilities with the oldest steel tanks will be a top priority);
- Facilities located in vulnerable area (e.g. near drinking water sources, wetlands, etc.);
- Facilities with high-volume usage or whose compliance self-certification with 1998 equipment requirements was not DEQverified.

Geographic location is then "layered" over this initial selection to maximize efficiency. For example, if the oldest steel tank in a particular town or community is a long distance from a DEQ office, other facilities in the area will be selected as well to avoid making a long trip for only one inspection. Facilities are not included in the inspections if they have recently been inspected by DEQ or the U.S. Environmental Protection Agency (EPA). In addition, DEQ may make substitutions to inspect facilities that the agency has received complaints about or are otherwise of concern to DEQ.

Scheduling of inspections

Inspections are divided among DEQ's three regions among inspectors located in Portland, The Dalles, Pendleton, Bend, Medford, Coos Bay, Eugene and Salem. Inspectors send a letter to each facility to be inspected, requesting that the owner/operator contact DEQ to schedule the inspection. Due to the fact that each inspection can take several hours and the facility owner's uninterrupted participation is needed, this scheduling process is very important.

DEQ includes a copy of the document "How to Prepare for an UST Compliance Inspection" with the letter sent to schedule the inspection.



State of Oregon Department of Environmental Quality

Land Quality Division, Underground Storage Tank Program, 811 SW 6th Avc. Portland, OR 97204

For more information:

Phone: (503) 229-5733 (800) 742-7878 Fax: (503) 229-6954

DEQ Tank Program Web

site: www.deq.state.or.us/wmc/ta nk/ust-lust

Contact: Laurie McCulloch (503) 229-5769

Alternative formats: Alternative formats of this document can be made available. Contact DEQ's Office of Communications and Outreach, Portland, at (503) 229-5317.

Last Updated: 8/20/2002 By: Mitch Scheel

UST Compliance Inspection

Guidance for Owners and Operators of Underground Storage Tank Facilities in Oregon

to land quality
then underground stora

CONTRACT ENVIRONMENTAL SERVICE

2005 SW 198th AVE. ALOHA, OR 97006

503/259-2961



October 2001



PRINTED ON RECYCLED PAPER

How to Use This Guidance

Each Permittee is expected to be familiar with the UST system components and equipment at their facility as well as the UST regulations. With this knowledge, you can review this guide and determine the "Compliance Items" that apply to your facility. Compliance Items are specific requirements listed in state and federal rules that the DEQ inspector will be checking. This guide provides a listing of specific compliance items for new and existing UST systems, including release detection methods, spill prevention, overfill prevention, corrosion protection, and repairs.

Compliance items are labeled A to J by section. All facilities are required to provide the information listed in Parts A, B, C, E, F, H, I, and J of this document. Depending on the type of release detection method(s) in use at your facility, sections in Parts G.1 through G.8 have been completed. Each section has been labeled to match the report form that DEQ inspectors use in the field.

TECHNICAL ASSISTANCE

After the inspection (or during, if appropriate), the UST inspector will be happy to answer any technical assistance questions you may have. In addition, each inspector carries copies of a number of guidance documents and regulations that they will be glad to provide you with.

AFTER THE INSPECTION

If you "pass" the inspection without any problems, DEQ will send you a brief letter to document your compliance status at the time of the inspection. You will also be notified if any violations are observed during the inspection and issued a "Notice of Noncompliance". The Notice will include specific actions that must be taken to correct the violations and a schedule for completing these actions. Once these corrections have been made, DEQ will send you a brief letter to document that compliance has been achieved.

Underground Storage Tank Information									
Tank#	2	3	4	5	6				
Rermit#		,			·				
Product									
Volume, Gal.	•								
Install/Date		-							
Tank Type									
C. P. Date									
Molume; Gal: Install Date: Tank Type C: P Date Lining Date:									
Pipe Type									
Pipe Type Pipe Model	,								

Review the information or question for each item listed that pertains to your facility. Items that pertain to your facility that you need to complete are Hi-Lited in Yellow, those items that have been verified are typed in red. Check the box when you have assembled the required information or understand the requirement and can demonstrate compliance.

Part A Facility and Owner/Operator Information (Section 1)

Provide the following information regarding property ownership, tank ownership and the person responsible for the day-to-day operation of the facility.

Name, Address, telephone and Fax numbers for the: Tank Owner, Property Owner and Permittee

o Current information is available for all three and ready to be given to DEQ.

Part B Underground Storage Tank Information (Section 2)

Provide or verify facility information that includes: UST facility number and Operating Certificate number. For <u>each tank</u>: permit number (i.e. ABCD), your tank ID, product stored, tank diameter and length, volume, installation date, tank type and installation date for corrosion protection and lining, if applicable.

o Current information is available and ready to be given to DEQ.

Part C Facility Layout Diagram (Section 2)

Provide a detailed "as built" diagram of the entire facility. The diagram must include the location of all UST system components including all USTs, piping, dispensers, spill prevention devices, overfill prevention devices and all elements of any UST or piping corrosion control system.

o As-built diagram is available and ready to be given to DEQ.

Part D Financial Responsibility (Section 4)

Compliance Items

- o How is the requirement met? (insurance, bond, letter of credit, etc.)
- o Are the documents written in acceptable EPA language?
- o Is the amount of coverage correct?
- o Is the mechanism of compliance current?

Part E Spill Prevention (Section 2)

Compliance Items

- o Spill devices are required on all tanks.
- o The fill pipe is fitted with spill containment.
- o The turbine pump is fitted with spill containment.
- o The dispensers are fitted with spill containment.
- o The containment devices are clean and dry.
- o Is there any visual sign of soil impacted by spills? If so, was the release reported to DEQ?

Part F Overfill Prevention (Section 2)

Compliance Items

- o Overfill devices are required on all tanks.
- o Tanks have fill pipe shutoff devices.
- o Tank vents have ball float valves.
- o Tanks have high level alarms.

Release Detection Methods

The release detection method used at your facility is listed below. Your methods for USTs and piping, and the corresponding sections (Parts G.1 through G.8) listing the Compliance Items for that method are shown below.

Method for USTs (Section 6)

- o Automatic Tank Gauging G.1
- o Interstitial Monitoring G.2
- o Statistical Inventory Reconciliation (SIR) G.3
- o Inventory Control & TTT G.3
- o Manual Tank Gauging G.4
- o Manual Tank Gauging & TTT G.4
- o Vapor Monitoring G-6
- o Groundwater Monitoring G.5

Methods for Pressurized Piping (Section 7)

- o Annual Line Tightness Test G.7
- o Automatic line leak Detector G.7
- o Electronic Line Leak Detectors G.7A
- o Interstitial Monitoring G.2
- o Vapor Monitoring G.6
- o Groundwater Monitoring G.5

Methods for Suction Piping (Section 7)

- o Interstitial Monitoring G.2
- o Line Tightness Test (3yr) G.7
- o SIR G.3
- o Groundwater Monitoring G.5
- o Vapor Monitoring G.6
- o None Needed Safe Suction G.8
- o None needed No underground piping

Part G.1 Automatic Tank Gauging (ATG)

Compliance Items

- o The make and model of the ATG and sensing probe =
- o The ATG and sensing probe(s) were installed by =
- o The ATG manufacturer's information is available at site.
- o The ATG has been installed, calibrated and repaired as per the manufacturer's instructions.
- o The ATG has received third party verification of device performance. Documentation is available.
- o The presence of tank probes can be verified in each tank.
- o The ATG control unit is connected and operating.
- o The tank test is conducted at the required product volume and time.
- o 12 months of test records sre available.
- o Has the ATG ever indicated a release? If so, was the release reported to DEQ?

Part G.2 Interstitial Monitoring- USTs and Piping

Compliance Items

All Systems

- o Monitoring equipment is accessible and functional.
- o There is a record of monthly monitoring conducted for each of the last 12 months.

Electronic Systems

- o The monitoring unit is operational.
- o There is a record of equipment maintenance and calibration.

Summary

o Has the monitoring device ever indicated a release? If so, was the release reported to DEQ?

Part G.3 Inventory Control, Tightness Testing and Statistical Inventory Reconciliation

Compliance Items

- o Are readings recorded each operating day and reconciled monthly?
- o Is the correct calibration chart used to determine volume to the nearest 1/8 inch of product depth?
- o Are tank inventory readings recorded before and after each delivery?
- o Can gauge stick be read to nearest 1/8 inch and measure full height of product in tank?
- o Are monthly water readings measured to the nearest 1/8 inch and used in the inventory calculation?
- o Does each dispenser have a totalizer with a currently calibrated meter?

Statistical Inventory Reconciliation (SIR) only

Compliance Items

- o Has the SIR method received third party approval for tanks? Have documentation available.
- o Has the SIR method received third party approval for piping? Have documentation available.
- o Have two consecutive monthly inconclusive results occurred in the last 12 months? If so, was the release reported to DEQ?

Tightness Test only

Compliance Items

- o Has the tightness test method been third party approved? Have documentation available.
- o Did an Oregon licensed Service Provider for Tightness Testing perform the tightness test?
- o Has the ten-year exemption from advanced leak detection expired?

All Methods

Compliance Items

- o Are 12 months of monitoring data available?
- o Is the monthly reconciliation calculation performed each month?
- o Does the fill pipe drop tube extend to within one foot of the tank bottom?
- o Did all tanks pass the last tightness test?
- o Has a release or a suspected release ever occurred? If so, was the release reported to DEQ?

Part G.4 Manual Tank Gauging

Compliance Items

- o Do records show that level measurements are taken at start and end of a 36-, 44- or 58-hour period?
- o Is product added or removed during the gauging period?
- o Are measurements recorded weekly?
- o Is the monthly reconciliation calculation performed correctly?
- o Is the tank inventory product height at the start and end of the gauging period the average of two stick readings?
- o Is the weekly and monthly variation between start and end less than standard for tank size and test period?
- o Can gauge stick be read in 1/8 inch increments to full height of tank volume?
- o Is MTG the sole leak detection method for a tank with a volume of greater than 1,000 gallons?
- o Is Tank Gauging and Tightness Testing the sole method for a tank greater than 2,000-gallon tank?
- o Has the 10-year exemption from advanced leak detection expired?
- o Has a tightness test been completed in the last 5 years?
- o Are 12 months of monitoring records available?
- o Has a suspected release occurred? If so, was the release reported to DEQ?

Part G.5 Groundwater Monitoring

Compliance Items

- o Is the well registered with the Oregon Water Resources Department?
- o Was the well installation approved by DEQ before it was installed? Have documentation available.
- o Is the well log available and on file?
- o Is the well clearly marked and secure?
- o Can water be observed in the well?
- o Is groundwater monitoring used as the release detection method for <u>all USTs</u> at this facility?
- o Is groundwater monitoring used as the release detection method for all piping at this facility?
- o Was a site assessment completed prior to installation of the groundwater monitoring wells?
- o Is documentation of monthly monitoring available and on file?

Part G.5 Groundwater Monitoring (continued)

Compliance Items

- o Is the specific gravity of the stored product less than 1.0?
- o Is the hydraulic conductivity of the soil between the UST system and wells less than 0.01 cm/sec?
- o Was the hydraulic conductivity determined by a registered geologist and is a report available?
- o Is the groundwater more that 20 feet from the ground surface?
- o Are the wells sealed from the ground surface to the top of the filter pack?
- o Are the wells located within the UST excavation or as close as feasible?
- o Does the screened interval intercept groundwater under both high and low water conditions?
- o Can continuous or manual monitoring detect the presence of 1/8 inch of product on water?
- o Is the groundwater monitored manually on a daily basis?
- o ls the groundwater monitored continuously and are all system components present and operational?
- o Does the well cause any increased risk to human health or the environment?
- o Has a release ever been detected? If so, was the release reported to DEQ?

Part G.6 Vapor Monitoring

Compliance Items

- o Was the well installation approved by DEQ before it was installed? Have documentation available.
- o Is the well clearly marked and secure?
- o Are the well caps tight?
- o Is the well constructed to prevent interference by moisture?
- o Is the well free of debris and has been recently checked?
- o Was the UST excavation zone assessed prior to vapor monitoring system installation?
- o Is the backfill material sufficiently porous?
- o Is the stored product or tracer sufficiently volatile to be detected by the equipment used?
- o Will rainfall, groundwater, soil moisture or other interference delay a 30-day detection time?
- o Will background contamination interfere with the detection method?
- o Will the vapor monitor detect any significant increase above background?
- o Has a release ever been detected? If so, was the release reported to DEQ?

Automatic Systems

- o Is the control box accessible and the power on?
- o Is documentation of continuous monitoring for last 12 months available?
- o Is the monitoring equipment accessible and functional?
- o Is the vapor sensor maintained and calibrated annually, as per manufacturer's instructions?

Manual Systems

- o Is documentation of daily monitoring available for the last 12 months?
- o Is the monitoring equipment accessible and functional?
- o Is the vapor sensor maintained and calibrated annually, as per manufacturer's instructions?

Part G.7 Line Leak Detectors

Compliance Items

- o The line leak detector(s) make and model =
- o The detector(s) is connected to an automatic shut off device.
- o The detector(s) is connected to an automatic flow restrictor.
- o The detector(s) is connected to a continuous audible or visual alarm.
- o All detectors passed the last annual test.
- o The detector leak detection rate is less than or equal to 3 gph at 10 psi.
- o Do any of the detectors indicate a release? If so, was the release reported to DEQ?

Part G.7A Electronic Line Leak Detectors

Compliance Items

- o The electronic line leak detector is 3rd party certified to perform the line test.
- o The detector is set at 0.1 or 0.2 gph.
- o The proper records are available. (monthly test for 0.2 gph, or annual test for 0.1 gph)
- o Have the detectors ever indicated a release? Has the release been reported to the DEQ?.

Part G.8 Safe Suction

Compliance Items

- o The piping system slopes to the tank and operates at atmospheric pressure.
- o Only one check valve is used.
- o The check valve is located directly under the dispenser.
- o How were these requirements verified? Have documentation available.

Part H Corrosion Protection for Steel (Section 5)

Galvanic C P - Tanks and Piping

Compliance Items

- o When was the corrosion protection system installed?
- o Has the tank passed the NACE RP-0285 evaluation?
- o Has the piping passed the NACE RP-0285 evaluation?
- o What was the date of the 6-month inspection?
- o When is the first 3-year inspection due?
- o When was the last 3-year inspection performed?
- o When is the next 3-year inspection due?
- o Are all corrosion protection tests on file?

Impressed Current C P - Tanks and Piping

Compliance Items

- o When was the corrosion protection system installed?
- o Is the system connected to power and turned "ON"?
- o Is the 60-day inspection log present and current?
- o Has the tank passed the NACE RP-0285 evaluation?
- o Has the piping passed the NACE RP-0285 evaluation?
- o What was the date of the 6-month inspection?
- o When was the first 3-year inspection due?
- o What was the date of the last 3-year inspection?
- o When is the next 3-year inspection due?
- o Are the results of all corrosion protection tests on file?

Internally Lined Tanks (No C. P.)

Compliance Items

- o Was an internal inspection completed prior to lining? What method of inspection was used?
- o When was the lining was installed?
- o When is the 10-year inspection due?
- o When is the first 5-year inspection is due?
- o What is the date of the last inspection?
- o When is the next inspection due?

Part I Cathodic Protection System Testing

Provide the results of all required cathodic protection system tests. Make sure that the test contractor provides a detailed report that includes a diagram with the location of reference electrode(s) used during measurement of soil-to-structure potentials clearly marked.

o Current information is available and ready for DEQ to review.

Part J Facility Upgrade and Repair History (Section 3)

The Permittee must notify DEQ prior to any upgrade work and document work performed. You must also keep records of any repairs made to system components and specifically list significant problems associated with equipment or materials.

o Current information is available and ready for DEQ to review.

The following compliance items were found during my inspection:

- 1. Financial responsibility =
- 2. Corrosion Protection =
- 3. Spill Containment =
- 4. Overfill Prevention =
- 5. Tank Leak Detection =
- 6. Line Leak Detection =

The following must be done to maintain compliance:

- 1. Pay annual DEQ tank fees.
- 2. Keep Financial Responsibility mechanism current.
- 3. Perform annual ATG operability certification and keep last twelve (12) months of data.
- 4. Perform annual line and line leak detector testing.
- 5. Keep all containments clean and dry.
- 6. Perform routine O & M so that equipment (impact valves, emergency shut-off, etc.) are operating optimally.
- 7. Keep a matenance and repair log.
- 8. Keep non-reportable incident log.
- 9. Prepare emergency response plan and have employees familiarize themselves with it.

If you have any questions about your underground storage tank system, please call me so that we can resolve the problem promptly and correctly.

Jim

ENFORCEMENT

A. CLASSIFICATION OF VIOLATIONS

Violations pertaining to Underground Storage Tank Systems are Classified as follows:

Class One: Carries \$75% Fine Working a requirement or condition of a commission or Department order. 1.

- site totion (b) Failure to report a release or suspected release from an UST system or a heating oil tank.
- (c) Failure to perform an investigation or confirmation of a suspected release.
- (d) Failure to establish or maintain the required financial responsibility mechanism.
- (e) Failure to initiate and complete the investigation or cleanup of a release from an UST system or a heating oil tank.
- (f) Failure to submit reports from the investigation or cleanup of a release from an UST system or heating oil tank.
- (g) Failure to provide or allow access to premises or records.
- (h) Failure to apply for and be issued the appropriate general permit registration certificate before decommissioning, installing or operating an UST, not otherwise classified.
- (i) Failure to install spill and overfill protection equipment that will prevent a release or to be able to demonstrate to the Department that the equipment is properly functioning.
- (j) Failure to install, operate or maintain a method or combination of methods for release detection for an UST system such that the method can detect a release from any portion of the UST system.
- (k) Failure to install or use equipment that is properly designed and constructed to protect any portion of the UST or piping from corrosion.
- (1) Failure to operate and maintain corrosion protection such that it continuously provides protection to the UST system.
- (m) Failure to permanently decommission an UST system.
- (n) Failure to obtain approval from the Department before installing or operating vapor or groundwater monitoring wells as part of a release detection method.
- (o) Installing, repairing, replacing or modifying an UST system in violation of any rule adopted by the Department, not otherwise Classified.
- (p) Systematic failure to conduct testing, monitoring or to keep records.
- (q) Failure to initiate and complete free product removal in accordance with OAR 340-122-0235.
- (r) Providing installation, modification, repair, replacement, decommissioning or testing services on an UST system or providing soil matrix cleanup services at an UST facility without an UST service or soil matrix cleanup service provider license.
- (s) Using fraud or deceit to obtain an UST service provider, soil matrix cleanup service provider, heating oil tank service provider or supervisor license or demonstrating negligence or incompetence in performing UST or other tank services.
- (t) Failure to assess the excavation zone of a decommissioned or abandoned UST when directed to do so by the Department.
- (u) Any other violations related to UST systems or heating oil tanks that cause or pose significant harm to public health or the environment.

2. Class Two:

00014460

- (a) Failure to conduct release detection monitoring and testing activities for USTs or piping, not otherwise classified.
- (b) Failure to conduct corrosion protection monitoring and testing activities for USTs or piping, not otherwise classified.
- (c) Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods or equipment or corrosion protection equipment, not otherwise classified.
- (d) Continuing to use a method or methods of release detection after period allowed by rule has expired.
- (e) Failure to use or maintain spill or overfill prevention equipment, not otherwise classified.
- (f) Failure to meet all requirements for a financial responsibility mechanism, not otherwise classified.
- (g) Failure to have a trained UST System Operator for an UST facility after March 1, 2004.
- (h) Failure to apply for a modified general permit registration certificate.
- (i) Failure to have an operation certificate for all compartments or chambers of a multichambered or multicompartment UST when at least one compartment or chamber has an operation certificate.
- (j) Installing, repairing, replacing or modifying an UST or UST equipment or conducting a soil matrix cleanup without providing the required notifications.
- (k) Failure to decommission an UST in compliance with the statutes and rules adopted by the Department, including, but not limited to, performance standards, procedures, notification, general permit registration and site assessment requirements.
- (I) Providing installation, modification, decommissioning or testing services on an UST system or providing soil matrix cleanup services at an UST facility that does not have the appropriate general permit registration certificate.
- (m) Failure by a distributor to obtain the identification number for each UST and operation certificate number before depositing a regulated substance into an UST.
- (n) Failure by a distributor to maintain a record of all USTs into which it deposited a regulated substance.
- (o) Allowing the installation, modification, decommissioning or testing of an UST system or soil matrix cleanup at an UST facility by any person not licensed by the Department.
- (p) Failure to provide information as required by OAR 340-150-0135(6) or as requested by the Department.
- (q) Failure to submit checklists or reports for UST installation, modification or suspected release confirmation activities.
- (r) Failure to comply with integrity assessment inspection schedules or requirements for internally lined USTs.
- (s) Allowing the performance of heating oil tank services or supervision at a heating oil tank by any person not licensed by the Department.
- (t) Providing heating oil tank services at a heating oil tank without a heating oil tank service provider or supervisor license.
- (u) Failure to submit a corrective action plan (CAP) in accordance with the schedule or format established by the Department pursuant to OAR 340-122-0250.
- (v) Failure by an owner or permittee to pass the appropriate national examination before performing installation, decommissioning or testing services on an UST system.

- (w) Supervising the installation, modification, repair, replacement, decommissioning, testing or soil matrix cleanup of an UST system without a supervisor license.
- (x) Failure by an owner or permittee to provide the identification number for each UST or operation certificate number to persons depositing a regulated substance into an UST.
- (y) Any other violation related to UST systems or heating oil tanks not otherwise classified.

3. Class Three: \$50 Find

- (a) Failure by a person who sells an UST to notify the new owner or permittee of the Department's general permit registration requirements.
- (b) Failure to maintain release detection records for USTs or piping if the failure does not constitute a significant operational compliance violation.
- (c) Failure to maintain required manufacturer's information or third party evaluation documents for approved methods or equipment.
- (d) Failure to maintain training records for an UST system operator.
- (e) Failure to keep records of UST system repair, modification or replacement work.

FIELD CITATIONS

- Exclusion from participation in the expedited enforcement process exists if:
 - The total field penalty amount for all violations identified during a single inspection or file review exceed \$300.
 - One or more Class I violations are documented.
 - A field penalty or civil penalty is issued for the same violation at the same UST facility within the previous three years.
- The Department determines eligibility for the expedited process at its discretion.
- The Department will take appropriate enforcement action in accordance with OAR Chapter 340, Division 12 for any documented violations or conditions that exclude participation in the expedited enforcement process.
- Each Class II UST violation listed in OAR 340-012-0067(2) is assigned a field penalty amount of \$50, except for Class II violations meeting the following circumstances, which are assigned a field penalty amount of \$75.
 - Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods by using a release detection method that does not have third party evaluation and approval.
 - Use of a method or methods of release detection as the primary release detection method after the period allowed for such use by rule has expired.
 - Failure to conduct required release detection monitoring and testing activities for USTs or piping by not monitoring or testing for the presence of a release every 30 days or daily as required.
 - Failure to conduct required release detection monitoring and testing activities for USTs by not performing a tank tightness test in accordance with the required schedule for release detection method or as necessary for confirmation of a suspected release.
 - Failure to conduct required release detection monitoring and testing activities for USTs or piping by failing to ensure that groundwater and vapor monitoring release detection systems are functioning properly to detect a release from all portions of the system that contain a regulated substance.

- Failure to conform to performance standards and requirements and third party evaluation and approval for UST system release detection methods or equipment by using the manual tank gauging release detection method for an UST larger the 2,000 gallons capacity.
- Failure to conform to performance standards, requirements, third party evaluation, and approval for UST system release detection methods or equipment by not having a line leak detection devise that is operational or able to detect a leak in underground piping.
- Failure to conduct required corrosion protection monitoring and testing activities for USTs or piping by not conducting an inspection after the first six months of operation or subsequent tests according to schedule.
- Failure to conduct required corrosion protection monitoring and testing activities for USTs or piping by not conducting an initial tank integrity inspection or periodic internal lining inspections.
- Failure to have an operating certificate for all compartments or chambers of a multichambered or multicompartment UST when at least one compartment or chamber has an operating certificate.
- Failure to apply for modified operation certificate when a change in tank ownership, permittee, or property owner has occurred.
- Failure to provide complete documentation to demonstrate financial responsibility coverage.
- Failure to have a trained UST system operator for an UST facility by February 2004.
- Each Class III violation listed in OAR 340-012-0067(3) is assigned a field penalty amount of \$50 when the owner or permittee has received prior notice of the violation through a field citation and has not corrected the violation.
- Any violation of UST rules that also violates a final order incorporated into a field citation may be excluded from the expedited process at the Department's discretion.
- Permittees issued a field citation have 30 calendar days from the date of issuance to submit payment for the total field penalty amount. Payment is deemed submitted when received by the Department.
- By submitting payment, the permittee agrees to accept the field citation as the final order by the commission and to waive any right to an appeal or any other judicial review of the determination of violation, compliance schedule or assessment of the field penalty in the field citation.

CIVIL PENALTIES AND ORDERS

The Notice of Assessment of Civil Penalty and/or Department order initiates a formal administrative enforcement process. It outlines DEQ's finding of facts, identifies the laws or regulations DEQ believes were violated, invites you to attend an informal discussion, and gives you information about how to appeal. If you accept DEQ's findings, the case will be closed once you perform the actions required by the Order and pay the penalty.

The amount of the civil penalty reflects the severity, frequency, and duration of the alleged violation(s). Other factors considered are history of compliance or noncompliance with environmental laws, degree of negligence, and economic benefit gained through noncompliance. DEQ's explanation about how these factors were applied are listed on the Exhibits (s) attached to the Notice of Assessment of Civil Penalty and/or Department Order.

PORTLAND PORTLAND
435 NE Henceck 6530
Portland, OR 97212 Se
(503) 282-2587
FAX (503) 288-9664 FAX

SEATTLE 6530 5TH Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006 TRI-CITIES 200 S. 20th Ave Pasci. WA 99301 (509) 543-2016 FAX (509) 543-2051

INVOICE NO.	104177
PAGE	1
DATE	06/07/05

830 FOSS MARITIME 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

SAME SHIP TO **FOSS MARITIME** 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SAL	ES PERSON	ŢĘ	RMS	TAX	COD	E D	OC. NO.	.W/H	FREIGHT		SHIP VIA
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4. 15 DAYS ALLOWED FOR CORE RETU	RN REFUNDS.		178.00	.00)	.0	0		.00		.00		178.00

PAST DUE ACCOUNTS SUBJECT TO 1 1/2% INTEREST CHARGE PER MONTH, 18% ANNUAL RATE

PORTLAND 438 NE Honrock Portland, OR 97212 (503) 262-2587 FAX (503) 260-8664

Confidential Business Information

00014465

SEATTILE 6530 57H Place South Seatin, VA 95108 (200) 763-7867 FAX (206) 763-9008

TRI-CITIES 200 S 20th Ave PRIO, WA 39301 (509) 543-2018 FAX (509) 540-2051

INVOICE NO.	104177
PAGE	1
DATE	06/07/05

830 FOSS MARITIME 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

SAME FOSS MARITIME 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

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PAST DUE ACCOUNTS SUBJECT TO 1 1/2% INTEREST CHARGE PER MONTH, 18% ANNUAL RATE

Foss Maritime Company

660 West Ewing Street Seattle, WA 98119-1587 Telephone: (206) 281-3800 Fax: (206) 281-4742

Check No. - 40004355

Check Date - 07/15/05

INVOICE	DATE	DESCRIPTION	GROSS	DEDUCTIONS	AMOUNT PAID
104177	060705		178.00		178.00
			178.00		178.00
				<u> </u>	

Bank of America North Carolina

66-798 531 CHECK NO.

40004355



Foss Maritime Company 660 West Ewing St. Seattle, WA 98119-1587 Telephone: (206) 281 - 3800 FAX: (206) 281 - 4742

336920

DATE	AMOUNT
07/15/05	\$******178.00
VOID IF N	IOT CASHED IN 60 DAYS

PAY

MASCOTT EQUIPMENT 435 N.E. HANCOCK STREET PORTLAND OR 97212

COPY NOT NEGOTIABLE

AUTHORIZED SIGNATURE

00014467

PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 268-9664

830

9030 NW SAINT HELENS ROAD

PORTLAND, OR 97231-1127

336920

FOSS MARITIME

SOLD TO

SEATTLE 6530 57H Place South Seattle, WA 98108 (206) 763-7867 FAX (206) 763-9006

TRI-CITIES 200 S. 20th Ave Pesci, WA 99301 (509) 543-2018 FAX (509) 543-2051

INVOICE NO.	098158
PAGE	1
DATE	02/04/05

SAME **FOSS MARITIME** 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SALES PERSON	TE	RMS	TAX	CODE	DOC. NO.	W/H	FREIGHT		SHIP VIA
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Foss Maritime Company

660 West Ewing Street Seattle, WA 98119-1587 Telephone: (206) 281-3800 Fax: (206) 281-4742

Check No. - 233170

Check Date - 03/16/05

INVOICE	DATE	DESCRIPTION	GROSS	DEDUCTIONS	AMOUNT PAID
98158	020405		332.40		332.40
			332.40		332.40
]	
				1	

Bank of America North Carolina

66-798 531 CHECK NO.

00233170



Foss Maritime Company 660 West Ewing St. Seattle, WA 98119-1587 Telephone: (206) 281 - 3800 FAX: (206) 281 - 4742

336920

DATE	AMOUNT
03/16/05	\$******332.40

VOID IF NOT CASHED IN 60 DAYS

PAY

> MASCOTT EQUIPMENT 435 N.E. HANCOCK STREET PORTLAND OR 97212

COPY NOT NEGOTIABLE

AUTHORIZED SIGNATURE



PORTLAND 435 NE Hancock Portland, OR 97212 (503) 282-2587 FAX (503) 288-9864

SEATTLE 6530 5TH Place South Seattle, WA 98108 (208) 763-7867 FAX (206) 763-9006

TRI-CITIES 200 S, 20th Ave Pasci, WA 99301 (509) 543-2018 FAX (509) 543-2051

INVOICE NO.	098961
PAGE	1
DATE	02/24/05

830 FOSS MARITIME 336920 9030 NW SAINT HELENS ROAD PORTLAND, OR 97231-1127 SOLD

FOSS MARITIME 9030 NW ST HELENS ROAD PORTLAND, OR 97231

PLEASE PAY ON INVOICE - REMIT TO 435 NE HANCOCK - PORTLAND, OR 97212 - NO STATEMENT ISSUED UNLESS REQUESTED

REFERENCE NUMBER	SHIP DATE	SAL	ES PERSON	TE	RMS	TAX	CODE	DOC NO.	W/H	FREIGHT		SHIP VIA
LINDA	02/03/05	В	(DRB)	NET 10TH		ORM	ULPOR	092853	01	BILL		SERVICE
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PAST DUE ACCOUNTS SUBJECT TO 1 1/2% INTEREST CHARGE PER MONTH, 18% ANNUAL RATE

Foss Maritime Company

660 West Ewing Street Seattle, WA 98119-1587 Telephone: (206) 281-3800 Fax: (206) 281-4742

Check No. -

232698

Check Date - 03/10/05

INVOICE	DATE	DESCRIPTION	GROSS	DEDUCTIONS	AMOUNT PAID
98961	022405		142.00		142.00
			142.00		142.00
			į		Ti.

Bank of America North Carolina 66-798 531 CHECK NO.

00232698



Foss Maritime Company 660 West Ewing St. Seattle, WA 98119-1587 Telephone: (206) 281 - 3800 FAX: (206) 281 - 4742

336920

DATE	AMOUNT
03/10/05	\$******142.00

VOID IF NOT CASHED IN 60 DAYS

PAY

ONE HUNDRED FORTY TWO AND 00/100 *****
TO THE ORDER OF:

MASCOTT EQUIPMENT 435 N.E. HANCOCK STREET PORTLAND OR 97212

COPY NOT NEGOTIABLE

AUTHORIZED SIGNATURE

ATTH! DEAD HUNTER

COLUMBIA SNAKE RIVER DIVISION

POLLUTION INCIDENT REPORT

Person receiving report <u>LJ StepHeus</u> Time /SDO [** Fill in as much information as is known at the time of receiving notification, complete additional information	Date <u>/2/23/98</u> as obtained.
Person reporting incident(title/telephone no.)	
Incident location FML Time /500	Date <u>/2/23</u>
Vessel(s)/Facility involved FNL - BILGE LINE	
Employee(s) involved NONE	
Spill contained on deck No Appx Qty S	gallons
Source (if known) BILGE LINE Product type SLOP	
Is cargo continuing to escape from vessel/barge	
At what rateFrom how many compartments	
Direction of movement of spill DWN STREAM wind 10 - tides GBB current MODO	SLATE
Potential threat to environment or public/any known sensitive areas in the vicinity of spill വരുക്കാ	
Vessel condition/stable	Y Weed Give mental of Mental of Mental Grant of Mental o
US Coast Guard PDX 240-9370 Who POREIF Time Is	515 12/23
Oregon Response system 1-800-452-0311 Case # 98-3142 Time 1525	
Washington Response System 1-800-258-5990 Case # NA CLARRY J: ALL INCID GLENIC: ALL INCID DEAN HUNTER: OR	ENTS YES
Response equipment dispatched FOSS ENVILONMENTAL MIKE SUTTON COPY TRON WORLEY: TAN	VK BGS-OCEAN BGS AC VAC
Response personnel dispatched JIM ANDERSON:UP MARK TROUTMAN; Comments: BILL BURNETT: ALL	RIVER INCIDENTS AS NEEDED LINCIDENTS 7.70 vac Y.65

Fire, Medical and Police phone numbers are on KEN ANDERSON: CREW RELATED

Confidential Business Informationusco: GROUNDINGS

000714473

LETTER OF WARNING



United States Coast Guard

MARINE SAFETY OFFICE RESPONSE BRANCH (503)240-9379 6767 N. BASIN AVENUE PORTLAND, OREGON 97217



On or about <u>0525 24 MAY 99</u>, U. S. Coast Guard Marine Safety Office Portland, Oregon investigated a pollution incident involving your vessel facility at <u>FOS MARTITUME</u> TERM. It has been determined that you are responsible for this incident, associated removal costs and any damages resulting from your discharge of oil.

A discharge of oil into a navigable waterway of the United States is a violation of Section 311 of the Clean Water Act. A violation of the Act can result in a civil penalty of up to \$25,000 for each violation.

Under the Oil Spill Liability Act of 1990, the responsible party is liable for, among other things, removal costs and damages resulting from this incident. As long as the OSC determines that you are taking adequate actions in this matter, Federal removal action will usually be limited to monitoring the progress of your actions and providing guidance as necessry.

In consideration of this incident and the absence of recent similar violations, I am issuing this Letter of Warning in lieu of initiating an administrative penalty action. I currently do not intend to pursue this matter further. However, this incident may be considered or processed as a violation, if further information is uncovered. I urge your cooperation in preventing repetition of such violations.

A record of this incident will be maintained by the Coast Guard and this violation may be considered in the event future violations occur.

RESPONSIBLE PARTY

Name: Foss May. I'me Vs) Fac Name: Joseph T Address: 9030 NW ST HELES VIN/FIN: 0 56 76 31 RO RO BOX 83018 PORTLAND, Other Source Info: OR 97231 Phone #: 503-286-0631 RP violation history None

DISCHARGE INFORMATION

A violation of 33 USC 1321(b)(3) has been determined in that, there was a discharge of an oil or designated hazardous substance, in a harmful quantity, into a navigable waterway or adjoining shoreline of the United States, from your vessel, onshore or offshore facility, and you are the responsible party.

Incident Desc	ription:	ON 24 MAY	00 AT	0525 THERE	WAS A DISCHARGE	E EST.
OF 2 CUP	S OF	GEAR OIL IN	TO THE	WILLAMBITE !	RUR. FROM THE USL	
					SULT OF BILGE PUMP	
		<u> </u>				
Issued by	RMB	Chitay Lune	sen	Date/Time_	06 JUNDO	
Received by_	·	Pollution Investigator		Date/Time_		

COMMANDING OFFICER

U.S. Department of Transportation

or Transportation
United States
Coast Guard

NOTICE OF FEDERAL INTEREST FOR AN OIL POLLUTION INCIDENT

M/V JOSEPH T FOSS MARITIME Comp. 9030 NW St. Helens Rd.

COMMANDING OFFICER
MARINE SAIGTY OFFICE/GROUP
6767 N. DASIN AVE.
PORYLAND, OR 97217

<u>503-240-93</u>70

Gentlemen:

On or about 0505 24 MAY 00, an oil pollution incident occurred or threatens to occur at 1055 MARITIME TERMINAL, LITUAMENE RUL. You may be financially responsible for that incident. Under Federal Statutes, the United States Government may take action to minimize or mitigate damage to the public health or welfare that is threatened or that may be caused by this incident.

Under the Oil Pollution Act of 1990, the responsible party is liable for, among other things, removal costs and damages resulting from this incident. The failure or refusal of the responsible party to provide all reasonable cooperation and assistance requested by the Federal On-Scene Coordinator (OSC) will eliminate any defense or entitlement to limited liability which otherwise might be available under the Act.

You are advised that your failure to properly carry out the removal of the discharge as ordered by the OSC or to comply with any administrative orders necessary to protect the public health and welfare, may subject you to additional penalties. For such failure, owners, operators, or persons in charge of the vessel or facility from which the oil is discharged are subject under the Federal Water Pollution Control Act (FWPCA), as amended, to a civil penalty of up to \$25,000 per day of violation or up to 3 times the costs incurred by the Oil Spill Liability Trust Fund. Should you require further information concerning this matter, please contact $\frac{g_{n}}{g_{n}} = \frac{g_{n}}{g_{n}} = \frac{g_{n}}$

As long as the OSC determines that you are taking adequate actions in this matter, Federal removal action will usually be limited to monitoring the progress of your actions and providing guidance as necessary. Under the FWPCA, as amended, your response actions may be taken into account in determining the amount of any penalty assessed as a result of the discharge.

Sincerely.

	Bnº Cluten Nord Downson
Received and Acknowledged:	
Witness(es):	

Linda J Greg S Ralph S Larry U COLUMBIA SNAK EVENT, ACCIDENT, INCIDENT &	E RIVER DIVISION	D. HUNTER/ M. SUTTON
Person receiving report: Jini Everman	Tima: AK27	м. troutman. Date: 3 -29-630
Fill in as much information as is known at the time of rec	ceiving notification, complete a	dditional info as obtained.
Person reporting incident (title/telephone #)	OUR INFORMATION EVE	NTS"
Nature of Event/Incident: Oil Sheew JW Slip		
Location: FINL Mile I	Post: Time:	Date:
Vessel(s)/Facility Involved: 7 1050ph T. Mile I		
Employee(s) Involved:		
Brief Description of Incident/Event: While pulling	10 FINL 51:> 1	as J'm Moine
Noticed Large Sheen Muslip Weather Conditions: Calm (Had been Rain	•	<u> </u>
Weather Conditions: Calm CHad boen Rain	ing earlier	
Other Actions (drug test, etc):	-	
POLIUTION	INCIDENTS.	
Source of spill (if known) Dosaph T.	Product Type	: Bilge Luator
Source of spill (if known) Spill contained on deck:	Quantity:	UK gallons
Is pollutant continuing to escape from vessel/barge/source:	1	
At what rate:From how many con	npartments:	
Direction of movement of spill SighTLy down wind wind	tides	current
Is there a fire or threat of fire or injury:		
Containment/ clean up/ or repair efforts underway:		
Vessel condition/ stable/ grounding: N/A		
Foss containment boom deployedft		
Response Equipment/Personnel Dispatched:		
"MANDATORY" NOTIFICATIONS TO "Orphan" or "Mystery" spills need to be		
Response Duty Coordinator: Who:		Time:
↓ (MUST BE NOTIFIED WITHIN 30 MINUTES	S EVEN IF NOT REQUIRED	TO DESPONDI 4
(I U RESIUNDI 🔻
2) Foss Environmental Service(503) 283-1150	Who: Mike Lordas	
(800) 337-7455	Who: Mike Lordas	Time:
(800) 337-7455 Alternate contractors: 1) MFSA(503) 220-2055	Who:	Time:
(800) 337-7455 Alternate contractors: 1) MFSA(503) 220-2055 2) MSRC(800) 645-7745	Who:	Time: Time:
(800) 337-7455 Alternate contractors: 1) MFSA(503) 220-2055 2) MSRC(800) 645-7745	Who:	Time: Time:
(800) 337-7455 Alternate contractors: 1) MFSA(503) 220-2055 2) MSRC(800) 645-7745 3) U.S. Coast Guard(503) 240-9300-246-9311 4) Customer:	Who: Who: P.O. Bertelson Who: P.O. Townson Re	Time:
(800) 337-7455 Alternate contractors: 1) MFSA	Who:	Time:
(800) 337-7455 Alternate contractors: 1) MFSA	Who:	Time:
(800) 337-7455 Alternate contractors: 1) MFSA	Who:	Time:
(800) 337-7455 Alternate contractors: 1) MFSA	Who: Who: P.O. Bartelson Who: P.O. Townson Who: Reddy Who: Who:	Time:
Alternate contractors: 1) MFSA	Who: Who: P.O. Bertelson Who: P.O. Townson Who: Reddy Who: Who: Who:	Time:
Alternate contractors: 1) MFSA	Who:	Time:
Alternate contractors: 1) MFSA	Who:	Time:
(800) 337-7455 Alternate contractors: 1) MFSA	Who:	Time:
Alternate contractors: 1) MFSA	Who:	Time:
(800) 337-7455	Who: Who: Who: P.O. Bertelson Who: Reddy Who: Who: Who: Who: Who: Who: Who: Who:	Time: Time: Time: Time: O605 / O620 Time: O60/0 ht 6.6 Time: Time: Time: Time: Time: Time: Time: Time: O33946 Time: Time: Time: O525 M56/0545 O525 M56/0545 O527-1809 O33-9799 O33-9786
(800) 337-7455	Who:	Time:
Alternate contractors: 1) MFSA	Who:	Time: Time: Time: Time: O605 / O620 Time: O60/0 ht 6.6 Time: Time: Time: Time: Time: Time: Time: Time: O33946 Time: Time: Time: O33946 O339793 O527 + O525 O527-1809 O33-9799 O33-9786 O03-9803
(800) 337-7455	Who:	Time: Time: Time: Time: O605 / O80 Time: O60/0 ht c.c Rayaest Time: Time: Time: Time: Time: Time: O33946 Time: Time: Time: O33946 Time: Time: Time: O33946 O33-9793 O32-9793 O325 M36-/O545 O33-9799 O03-9786

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	TUG / BARGE - <notifies></notifies>	<spiller></spiller>
	VVVV	
	FOSS CUSTOMER SERV	ICE CENTER
	(24 hour/dispat	•
	SEATTLE., WA	` ,
	PORTLAND, OR	
	SAN FRANCISCO, CA LA/LONG BEACH, CA	
		,
	- <notifies></notifies>	>
(#1)	Foss Management	(#4) National Response Center
	<qualified individual=""></qualified>	(USCG / EPA)
	(List Maintained Separately, Section 1, 6)	(800) 424-8802 PR)2-2_267-2675
	V AND V	V AND V
(#2)	APPROPRIATE USCG COTP (#5)	APPROPRIATE STATE / CANADA
	Western Alaska/Anchorage, AK	Alaska - DEC
	(907) 271-6700	Southeast only: (907) 465-5340
	(***)=******	Central/West only: (907) 269-7500
	Prince William Sound/Valdez, AK	North only (R-Dog): (907) 451-212
	(907) 835-4791	If No Answer, call 24 hours to:
		(800) 478-9300 or (907) 428-7200
	Southeast Alaska/Juneau, AK	
	(907) 463-2000 / 2450	data i organg
	Duget Cound / Coattle WA	California - OES/OSPR (800) 852-7550 or (916) 262-1621
	Puget Sound / Seattle, WA (206) 217-26332	(800) 832-7330 01 (910) 202-1021
	(200) 217-20332	Canada - / CCG/WR
	Portland, Oregon	(604) 666-6011
	(503) 240-9300 / 9338	(***)
		Hawaii - HEER
	Honolulu, Hawaii	(808) 586-4249 or (808) 247-2191
	(808) 522-8260	
		Idaho - ECC / BOHM
	San Francisco/Alameda CA	(800) 632-8000 or (208) 334-4570
	(510) 437-3073	Oragon OEM/DEO
	I A/I and Beach CA	Oregon - OEM/DEQ (800) 452-0311 or (503) 378-6377
	LA/ Long Beach, CA (562) 980-444 / 4425	(000) 732-0311 01 (303) 310-0311
	(302) 300-777 (7723	Washington - EMD / DOE
	San Diego, CA	(800) 258-5990 or (360) 459-9191
	(619) 683-6505	
	V AND V	V AND V
(#3)	CUSTOMER/S (#6)	OTHERS, AS DIRECTED
	. (***)	(Or Appropriate)

Within 30 Minutes of discovery of a discharge or substantial threat of discharge the Qualified Individual (QI) <u>must</u> notify/mobilize the identified response resource for the appropriate geographic region. 33 CFR 155.1050(h). As appropriate, the Q.I. will also activate our spill response management team (ICS) and any necessary rescue/salvage/lightering resources.

White and Cimb Mo. Tile-0002 REPORT OF MARINE ACCIDENT, DEPARTMENT OF RCS No. G-MMI 2115-003 TRANSPORTATION U. S. COAST GUARD UNIT CASE NUMBER INJURY OR DEATH CG-2692 (Rev. 6-87) SECTION I. GENERAL INFORMATION 1. Name of Vessel or Facility 4. Call Sign Official No. 5 USCG Certificate of Inspection 206 10. Propulsion (Steam, diesel, gas, turbine, ...) 6. Type (Towing, Freight, Fish, Drill, etc.) 7. Length 8. Grass Tans 12. Draft (ft - in.) 13. If Vessel Classed, By Whom: IABS, LLOYDS, 14. Date lof occurrence) 15. TIME Local) 11. Hull Material (Swel. Wood ...) DNV, BV, etc.) AFT. 17. Estimated Loss or Damage TO: 16. Location (See Instruction No. 10A) 18. Name, Address & Telephone No. of Operating Co. VESSEL \$ Foss Maritima 9030 N.M ST. Helens Road Portland, OR. 97231 CARGO OTHER 19: Name of Master or Person in Charge USCG License 20. Name of Pilot USCG License State License ☐ YES TYES □ NO 19a, Street Address (Cirv. State, Zip Code) 20b. Telephone Number 19b. Telephone Number 20a. Street Address (City, State, Zip Code) 21. Casualty Elements (Check as many as needed and explain in Block 44.) ☐ FLOODING; SWAMPING WITHOUT SINKING NO. OF PERSONS ON BOARD _____ ☐ FIREFIGHTING OR EMERGENCY EQUIPMENT FAILED OR INADEQUATE ☐ CAPSIZING (with or without sinking) ☐ DEATH- HOW MANY? (Describe in Block 44.) ☐ MISSING- HOW MANY? FOUNDERING OR SINKING ☐ LIFESAVING EQUIPMENT FAILED OR ☐ INJURED- HOW MANY? ☐ HEAVY WEATHER DAMAGE INADEQUATE (Describe in Block 44.) ☐ HAZARDOUS MATERIAL RELEASED OR FIRE ☐ BLOW OUT (Petroleum exploration/production) INVOLVED EXPLOSION ☐ ALCOHOL INVOLVEMENT (Identify Substance and amount in Block 44.) COMMERCIAL DIVING CASUALTY (Describe in Block 44.) ☑ OIL SPILL-ESTIMATE AMOUNT: ☐ ICE DAMAGE DRUG INVOLVEMENT One Cup 40 wt. Lube 1 Damage to aids to navigation Cargo Container LOST/DAMAGED | Steering Failure (Describe in Block 44.) OTHER (Specify) COLLISON (Identify other vessel or object in MACHINERY OR EQUIPMENT FAILURE Block 44.) ELECTRICAL FAILURE GROUNDING □ WAKE DAMAGE ☐ STRUCTURAL FAILURE 22. Conditions B. WEATHER C. TIME D. VISIBILITY E. DISTANCE (miles) (of visibility) ☐ CLEAR ☐ DAYLIGHT ☐ GOOD F. AIR TEMPERATURE ____ A. Sea or River RAIN ☐ TWILIGHT ☐ FAIR Conditions ☐ SNOW ☐ NIGHT POOR (wave height, G. WIND SPEED & ☐ FOG river stage, etc.) DIRECTION OTHER (Specify) H. CURRENT SPEED & DIRECTION 23. Navigation Information 24. Last 24a. Time and Date SPEED Port of Departure M-MOORED, DOCKED OR FIXED AND Where ☐ ANCHORED ☐ UNDERWAY OR DRIFTING COURSE Bound 25. 25d. (Describe in Block 44.) Empty Loaded Total Length | Width FOR PUSHING AHEAD NUMBER TOTAL MAXIMUM OF H.P. OF SIZE OF TOW **TOWING** ☐ TOWING ASTERN VESSELS TOWING WITH TOW-ONLY ☐ TOWING ALONGSIDE TOWED UNITS BOAT(S) ☐ MORE THAN ONE TOW-BOAT ON TOW SECTION II. BARGE INFORMATION 26e. USCG Certificate of Inspection Issued at: 26. Name 26a. Official Number 26b. Type 26d. Gross Tons 26c. Length 26g. SINGLE SKIN
DOUBLE SKIN 26f. Year Built 26h. Draft 26i. Operating Company

26j, Damage Amount

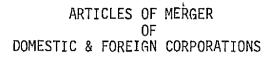
BARGE \$ CARGO \$ OTHER \$

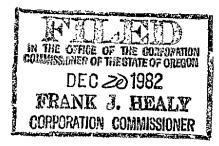
26k. Describe Damage to Barge

AFT

FWD

	SECTION	III. PERSONNEL	ACCIDENT	INFORMA	TION		
MALE or FEMALE	Name (Last, First, Mi	ddle Name)				27c. Status	W SENGER
DEAD INJURED 27b. Address (City. State, Zip Code))	ER (Specify)
28. Birth Date 29. Telephone	No.	30. Job Positi	ion		· · · · · · · · · · · · · · · · · · ·	31. (Check her	re if off duty)
32. Employer -(If different from Block I	8., fill in Name, Addr	ess, Telephone No.)					
33. Person's Time A. IN THIS INDUSTRY -	VIIII	YEAR(S)		MONTH(S)	34. Industry of Er Crew Supply.		ishing, Shipping,
B. WITH THIS COMPANY -		######################################	****			4	
C. IN PRESENT JOB OR POSITION - 35. Was the Injured Person Inca							
E. HOURS ON DUTY WHEN	I ACČIDENT OCCUP	RRED -			36, Date of Death	}	
37. Activity of Person at Time of Acc	ident						
AT Home Asleep 38. Specific Location of Accident on	Vessel/Facility						
FML DOCK Avea							
39. Type of Accident (Fall, Caught be			40. Resultin	ng Injury (Cut	, Bruise, Fracture,	Burn. etc.)	
41. Part of Body Injured			42. Equipm	ent Involved	in Accident		44-y
43. Specific Object, Part of the Equip	ment in Block 42., o	r Substance (Chemic	ical, Solvent, e	(c.) that direc	ctly produced the i	njury.	
	ŞEC	TION IV. DESCR	RIPTION OF	CASHALT	Y		
Secured the S 5-29-00 a Spill around the Doe Port Shaft alle	T. Appare	2100114	water	la las	Pupe	out of	s the
45. Witness (Name, Address, Telephor	ne No.)					· · · · · · · · · · · · · · · · · · ·	intercommunication and antique to the content of the particular pa
46. Witness (Name Address, Telephone	e No.)			•			
פברזי	ON V PERSON N	IAKING THIS PE	PORT	<u></u>	470	Títle & .	
SECTION V. PERSON MAKING THIS REPORT 47. Name (PRINT) (Last, First, Middle) 47b. Address (City, State, Zip Code) Luaroff John W 256 florence 4/d. Telephone No.							
Tuaroff John W 256 Florence 4/d. Telephone No. 149 (503) 334-749; ASTOVIA OR 97103 47e. Date 6-7-00					197		
MIN KI						6-7-0	L-
APPARENT CAUSE	AST GUARD USE	EONLY		_ REPO	RTING OFFICE:		
				T	10001/05		
CASUALTY CODE A B C	INVESTIGATOR (Voine)	DATE	AP	PROVED BY (Nan	ne)	DATE





The undersigned corporation, in accordance with the General Corporation Law of the State of Delaware and pursuant to Section 57.470 of the Oregon Revised Statutes hereby executes the following Articles of Merger:

ARTICLE I. PLAN OF MERGER

- 1.1 Knappton Terminals, Inc., an Oregon corporation, shall be merged into Knappton Corporation, a Delaware corporation, with Knappton Corporation being the surviving corporation.
- 1.2 The Plan of Merger between Knappton Terminals, Inc. and Knappton Corporation is attached hereto and incorporated herein by this reference.

ARTICLE II. OUTSTANDING SHARES

2.1 The number of Outstanding shares of each class of stock of the subsidiary corporation, Knappton Terminals, Inc. and the number of such shares of stock owned by the surviving corporation, Knappton Corporation are:

Name of Corporation	Total Shares Outstanding	Total Shares Entitled to vote	Class of Stock	Shares Owned by Knappton Corporation
Knappton Terminals Inc	1,000	1,000	Common	1,000

ARTICLE III. NOTICE

3.1 Knappton Corporation as sole shareholder of Knappton Terminals, Inc. has waived the statutory requirement that a copy of the Plan of Merger be mailed to it and has agreed that the execution of the Plan of Merger shall constitute mailed notice of the Plan of Merger to the Shareholders of Knappton Terminals, Inc. The Plan of Merger was executed on the one day of the Company of 1982.

Page 1 - ARTICLES OF MERGER

ARTICLE IV. COUNTERPARTS

4.1 Multiple counterparts hereof sha counterpart shall be deemed to be an origin this the day of December 1982.	IT be executed and each such executed nal instrument. EXECUTED and dated
KNAPPTON TERMINALS, INC.	KNAPPTON CORPORATION
By PETER J. BRIX, PRESIDENT	By PETER J. BRAX, PRESIDENT
By ROBERT A. HINDMAN, SECRETARY	By WENDY M. ANDERSON, SECRETARY
STATE OF OREGON)	
STATE OF OREGON) ss. County of Meltromal	December 6_, 1982
Personally appeared PETER J. BRIX who is the President of KNAPPTON CORPORATION as in behalf of said KNAPPTON CORPORATION by and he acknowledged the foregoing instrument	nd that said instrument was signed authority of its Board of Directors; nt to be its voluntary act and deed.
Before me:	Rosemane Forence ry Public for Oregon commission Expires 3-19-84
MA C	ommission Expires 3-19-82/
STATE OF OREGON)	
STATE OF OREGON) ss. County of Multnomak	December 6, 1982
Personally appeared Robert A. Hindman he is the Secretary of KNAPPTON CORPORATI in behalf of said Directors; and he acknown its voluntary act and deed.	ON and that said instrument was signed
Before mes	Gremane Vorrence
	ry Public for Oregon $3-9-84$
Page 2 - ARTICLES OF MERGER	

STATE OF OREGON) County of Multnomal	ss.	_ Decembe	<u>n b</u> , 198
Personally appeared PET he is the President of KNAPP was signed in behalf of said Board of Directors; and he a	TON TERMINALS, 1 KNAPPTON TERMI	INC. and that said NALS, INC. by auth	d instrument nority of its

Sefore me:

voluntary act and deed.

Notary Public for Oregon My Commission Expires:

1982

STATE OF OREGON

SS.

December 6, 1982

Personally appeared WENDY M. ANDERSON who being duly sworn did say that she is the Secretary of KNAPPTON TERMINALS, INC. and that said instrument was ment to be its voluntary act and deed. signed in behalf of said Directors; and she acknowledged the foregoing instru-

.Before me:

Notary Public for Oregon My Commission Expires: 7

Page 3 - ARTICLES OF MERGER

We, the undersigned, declare under the penalties of perjury that we have examined the foregoing and to the best of our knowledge and belief it is true, correct and complete.

KNA	PTO	N TERMINALS	
Name	of	Corporation	

by July Brix

and

Its President

Its Secretary

Dated December 22, 1982

We, the undersigned, declare under the penalties of perjury that we have examined the foregoing and to the best of our knowledge and belief it is true, correct and complete.

KNAPPTON CORPORATION

Name of Corporation

Its President

by Bux

and

Its Secretary

Dated December 22, 1982

#4140

RIEDEL ENVIRONMENTAL SERVICES INC. CONTRACT FOR CONSULTING SERVICES

This <u>Consulting Agreement</u> dated the <u>7th</u> day of <u>November</u>, <u>1991</u> is between Riedel Environmental Services Inc. (RES) and <u>Brix Maritime Co. (Brix)</u>. Both RES (Consultant) and <u>Brix are jointly referred to herein as "the Parties".</u>

In consideration of payments to be made to Consultant and services to be provided by Consultant, the Parties agree as follows:

1. SCOPE OF WORK

RES agrees to provide technical consulting services to Brix relating to the development of an "umbrella" oil spill contingency plan for ten (10) Brix vessels operated on the Lower Columbia River (Portland to Astoria) and two (2) Brix vessels operated in Port Angeles, Washington, as further specified in Exhibits A and B (Proposal letters from RES to Brix dated September 26, 1991 and October 25, 1991) attached and incorporated into this Agreement. RES will prepare and submit two (2) drafts of the "umbrella" oil spill contingency plans to the Oregon Department of Environmental Quality and Washington Office of Marine Safety, as appropriate. RES will produce Draft #1 of the "umbrella" oil spill contingency plan and submit this plan to the aforementioned reviewing agencies (as appropriate) by February 29, 1992. RES cannot guarantee approval of the subject plans, but will put forth its best efforts to prepare and submit plans in accordance with currently established guidelines and requirements.

2. TIME

This Agreement is effective from the Agreement date of November 7, 1991 until May 31, 1992 and subject to renewal by mutual agreement of the Parties.

3. COMPENSATION

The compensation to be paid to Consultant for work performed per this Agreement shall be a firm, fixed price of \$12,000.

4. PAYMENT PROCEDURES

Consultant shall submit, on a monthly basis, invoices to Brix together with such supporting documentation as Brix may require to support requests for payment and reimbursement of expenses pursuant to this Agreement.

5. CONTRACTUAL WARRANTY, LIMITS OF LIABILITY AND INDEMNITY

Contractual Standard of Care. RES warrants that its provision of all services under this Agreement will conform to the standards of care, skill and diligence normally observed by professionals in the provision of similar services as of the time RES provides such services. THIS WARRANTY IS IN LIEU OF, AND EXCLUDES, ALL OTHER WARRANTIES, STANDARDS AND GUARANTEES, WHETHER EXPRESSED OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OF ANY EQUIPMENT, MACHINERY, PROCESS OR SYSTEM EMPLOYED OR PROVIDED BY RES. Brix's sole remedy and RES's sole liability for breach of the warranty set forth in this Section shall be the reperformance of the services in question to the extent necessary to cure the breach. Such remedy will be available to Brix only if Brix reports the breach to RES within a reasonable period of time after discovery of the breach and in any event not later than one year after completion of the service in question or termination of this

CONSULTING SERVICES CONTRACT

Agreement, whichever is earlier. In no event will RES's obligation to reperform services exceed in cost \$1,000,000 or the compensation actually paid to RES by Brix pursuant to this Agreement, whichever is less.

5.2 Limits of Liability.

- 5.2.1 <u>Consequential Damages</u>. In no event shall RES be liable to Brix (or any person claiming through Brix) in connection with this Agreement or the services provided under this Agreement for lost profits or any other consequential or incidental damages.
- Liens: Indemnification of Brix. RES shall pay as due all claims for labor, materials and services resulting from RES's performance of this Agreement and shall keep Brix's property free from any liens other than liens created by Brix. RES shall indemnify and hold harmless Brix from and against any and all liability, losses, claims, demands, damages, suits, costs, expenses (including attorneys' fees at trial and on appeal or petition for review) and causes of action arising out of any lien placed upon Brix's property as a result of RES's performance of this Agreement.
- Overall Limitation. RES' total liability to Brix pursuant to this Agreement howsoever arising out of or in connection with the Services performed hereunder, except for RES' liability to reperform its Services pursuant to paragraph 5.1 hereof, shall not exceed the lesser of (a) Brix's actual damages for which RES is liable hereunder; or (b) the applicable insurance proceeds paid in RES' behalf by carriers of the policies specified in paragraph 6 hereof.

6. INSURANCE

RES shall at its own cost and expense procure and keep in force and effect the insurance listed below with insurance carrier(s) acceptable to Customer. Before commencing any work, RES shall furnish Brix with Certificates of Insurance attested by a duly authorized representative of the insurance carrier(s) evidencing that the insurance required hereunder is in force and effect and that such insurance will not be canceled or materially changed without giving to Brix at least 30 days prior written notice. In the event RES fails to furnish Brix with acceptable Certificates of Insurance before the time named in this Agreement for commencing work, Brix shall have the right to terminate this Agreement.

- (a) Worker's Compensation and Employer's Liability Insurance;
- RES and all subcontractors retained by or through RES, and all their employees, workmen, agents, and servants shall comply with all requirements of the worker's or workmen's compensation laws of the state or states or other governmental authority in which RES or any subcontractor retained by or through RES is performing any work hereunder. In addition, RES shall carry Employer's Liability Insurance covering all operations and work hereunder in an amount not less than \$1,000,000 per occurrence.
- (b) General Liability Insurance and Automobile Liability:

 Insurance to protect against any and all claims for damages to persons or property which may arise out of the operations under this Agreement: (1) General Liability insurance shall be on an occurrence form and shall include coverage for acts of Contractor, Subcontractors, and anyone directly or indirectly employed by either of them. Such insurance shall include blanket contractual coverage, products and completed operations, and broad form property damage and all other standard coverages usually afforded by a commercial general liability policy. The amount shall be \$1,000,000 combined single limit for bodily injury and property damage. Such insurance shall name Customer as additional insured and shall be primary to any and all other insurance of Brix; (2) Automobile Liability insurance on all motor vehicles

owned, hired, or non-owned, which may be used or connected with any of the work hereunder. The amount shall be \$1,000,000 combined single limit for bodily injury and property damage.

7. PATENTS/TRADE SECRETS

Any and all invention(s) (whether or not deemed patentable), improvements, discoveries, formulas and/or processes learned or invented by the Consultant while in the process of performing this Agreement shall be the sole and absolute property of Consultant and Consultant shall be the sole and absolute owner of all patent, patentable and all other rights in connection therewith, without additional fees, royalties or other payments of any nature to be made by Consultant.

Consultant shall, at all times, during and for a period of nine months after the termination of this Agreement, any extensions, modifications and/or amendments thereto, hold inviolate and keep secret and shall not disclose by any method to any entity or person any confidential information, knowledge and/or documents of whatever form, type or nature relating to materials, processes, procedures, inventions, discoveries, performances or any trade secrets that are made known to Consultant during this contract, any extension, renewal or modification thereof.

8. COMPLIANCE WITH REGULATION

Consultant shall, at his sole cost and expense, comply with all laws, ordinances, and regulations. Consultant shall procure permits, licenses, insurance coverage (workers' compensation or otherwise) necessary or required by any governmental authority to do or perform his obligations hereunder. Consultant shall, upon request by Brix, provide Brix with evidence of compliance with such laws, rules and/or regulations.

9. CONFLICTS

Consultant covenants that he has no outstanding agreements, covenants or other restrictions that would prohibit him from entering into this Agreement and performing it.

10. ASSIGNMENT

This is a special consulting contract and it may not be assigned to or performed by any person and/or entity other than Consultant without the prior written consent of Brix.

11. ATTORNEY FEES

If it is necessary for either party to institute any proceeding, action or suit to enforce any rights under this Agreement, the party not prevailing in such proceeding, action or suit agrees to apply the prevailing party's costs and disbursements and such sums as the Judge of the court may adjudge reasonable as attorney's fees in any such proceeding, action or suit or in any appeal thereon.

12. APPLICABLE LAW

This Agreement shall be construed under the laws of the State of Oregon.

Riedel Environmental Services Inc.

By:

Brix Maritime Co

Bv:

Title:

Title:

CONSULTING SERVICES CONTRACT

EXHIBIT A



Northwest/Alaska Region: P.O. Box 03096 Portland, Oregon 97203-0096 (503) 286-4656 FAX (503) 283-9703

September 26, 1991

Ms. Chris Haley Manager, Petroleum Barging Brix Maritime Co. 9030 N.W. St. Helens Rd. Portland, Oregon 97283

Dear Ms. Haley:

In response to your request that Riedel Environmental Services Inc. (RES) provide you with a proposal for developing an oil spill contingency plan for two Brix Maritime vessels at your Port Angeles, Washington operation, we at Riedel have reviewed whatever appropriate guidelines are currently available (i.e. WAC 317-10-010 through 098) for the production of such a plan and have developed a proposal for the production of the plan. The final production and approval of the plan is dependent upon the release of final standards for the preparation of vessel contingency plans by the Washington State Office of Marine Safety. This release probably will not be forthcoming prior to November 5, 1991 (the date proposed for adoption of Chapter 317-10 WAC). In the interim, we have assumed that final standards will closely parallel the proposed standards set forth in WAC 317-10-050. To wit, the plan format and content would closely follow the ensuing outline for plan content requirements:

Plan Content Requirements (WAC 317-10-050)

- 1. Submittal Agreement
 - a. Party name, address, phone number
 - b. Owner/operator acceptance (w/ signature)
 - c. Commits implementation of plan by owner
 - d. Vessel name; name, location and address of owner/operator; official identification code or call sign; country of registration; common ports of call in Washington; type of oil(s) handled; oil volume capacity; expected period of operation; passenger capacity (if applicable).
- 2. Amendment Log Sheet
- 3. Table of Contents



- 4. Description of Plan Purpose and Scope
 - a. Geographic area of plan
 - b. Covered vessel operations
 - c. Size of worst case spill from covered vessel
- 5. Procedures and schedules for plan updates
- 6. Strategy to ensure plan utilization
- 7. Description of spill response system
- 8. a. Response contractor information; letter of commitment
 - b. Oil spill cooperative information
 - c. Primary response contractor approval by agency
- 9. Description of plan's relationship to other agency plans
- 10. Procedures to detect and document presence/size of spill
- 11. Description of notification procedures
 - a. Notification call-down list
 - I. Response contractor name, title, phone number
 - II. Agency contact list with phone numbers
 - III. Outline priority for immediate notification
 - b. Identify central reporting office to initiate call-down
 - c. Utilize system to categorize spill type and severity
- 12. Description of spill response personnel (owner and contractor)
 - a. Job description for each spill response position
 - b. Number of personnel available
 - c. Arrangements for prepositioning response personnel
 - d. Frequency of response personnel training
 - e. Procedures for training volunteers

- 13. a. Spill equipment type, quantity, age, location, maintenance schedule and availability
 - b. Above equipment which is not exclusively committed to plan
 - c. Equipment information: make, model, capacity, design limits applicable
 - d. Maximum oil recovery per 24 hour period
 - e. Realistic capabilities agency to apply efficiency multipliers
 - f. Arrangement for prepositioning equipment
- 14. Description of spill communication system
 - a. Communication procedures
 - b. Communication function (e.g. ground-to-air) of each channel
 - c. Maximum geographic range of each channel
- 15. Description of process to establish site spill response operations
 - a. Central command post
 - b. Central communications post
 - c. Equipment and personnel staging areas
- 16. a. Flowchart describing stages of spill response and cleanup
 - b. Description of spill response operations in checklist form
- 17. a. List agencies responsible for peripheral activities
 - I. Procedures to control fire and explosion; rescue operations
 - II. Procedures to control ground traffic
 - III. Procedures to manage site access
 - b. Description of plan holder's role in these emergency activities
- 18. Description of equipment and procedures to minimize magnitude of spill
 - a. Tank vessel damage control procedures
 - I. Methods and onboard equipment to:
 - A. Achieve vessel stability
 - B. Prevent further vessel damage
 - C. Slow or stop leaks
 - D. Achieve emergency shutdown during oil transfer

- b. Other covered vessel damage control procedures
 - I. Methods to:
 - A. Achieve vessel stability
 - B. Slow or stop leaks
- 19. Description (in detail) of methods for spill containment/removal
 - a. Surveillance methods to monitor spill movement
 - b. Methods to contain/remove oil in off-shore waters
 - c. Methods to contain/remove oil in near-shore waters
 - d. Methods to contain/remove oil and debris from shorelines
- 20. Include estimates of response times
- 21. Description of dispersants, coagulants, bioremediants, etc.
 - a. Type and Toxicity
 - b. Conditions acceptable for application (per agency requirements)
 - c. Methods of deployment
 - d. Location/accessibility of supplies and deployment equipment
- 22. In-situ burning (if allowed)
 - a. Type of burning operation
 - b. Conditions
 - c. Methods of application
 - d. Location/accessibility of supplies and deployment equipment
- 23. Description of how environmental protection will be achieved
 - a. Protection of sensitive shoreline by diverting spill
 - b. Priorities for sensitive area protection
 - c. Rescue/rehabilitation of wildlife (per WDOE policy)
 - d. Measures to reduce impact on sensitive areas (i.e. heavy equipment)

- 24. a. Description of site criteria and methods for interim debris storage
 - b. Plan for expediting interim storage approval (as needed)
 - c. Description of methods and sites for permanent waste disposal
 - d. Storage/disposal methods to accommodate volume collected
 - e. Storage/disposal methods to comply with agency rules
- 25. Description of procedures to protect health and safety of personnel; training
- 26. Explanation of past-spill review procedures
- 27. a. Description of schedule/type of spill drills
 - b. Tests of internal call-down procedures (every 90 days)
- 28. Description of measures to reduce spill potential (tank vessels)
 - a. Type/frequency of training to reduce operational risk
 - b. Methods to ensure equipment integrity
 - c. Methods to reduce spills during transfer operations
 - d. Key measures to reduce risks during navigation
- 29. List spill risk variables within geographic area
 - a. Types, physical properties and amounts of oil handled
 - b. Description/diagram indicating cargo, fuel and ballast tanks and piping, power plants and other oil storage/transfer sites
 - c. Description of operations with high spill potential; key areas posing navigation risk
- 30. Demonstrate access to index of environmental variables
 - a. Natural resources-aquatic habitats, breeding sites, etc.
 - b. Public resources beaches, water intake, marinas, etc.
 - c. Seasonal hydrographic and climatic conditions
 - d. Physical geographic features

- 31. Demonstrate access to index of logistical resources
 - a. Facilities for fire services, medical services, accommodations
 - b. Shoreline access areas; boat launches
- 32. a. Description (in detail) of step-by-step response scenarios
 - I. Small chronic oil spill (<500 gal.)
 - II. Worst case spill (as described pursuant to subsection 4c)
 - b. Scenario description to include
 - I. Circumstances of spill: size, type, location, conditions
 - II. Estimate of oil movement during first 72 hours
 - III. Estimate of response time/percent recovery
 - c. Multiple vessel plan describe simultaneous spill responses
- 33. Glossary of technical terms and abbreviations

We estimate that the production of the plan would require a total of 96 professional labor hours and 48 technical and clerical labor hours to meet the current plan content requirements as set forth in WAC 317-10-050. A breakdown of Riedel's proposal activities follows:

- A. Meetings with Brix Maritime and Washington Office of Marine Safety: 16 professional labor hours.
- B. Contingency plan data collection, writing and production: 80 professional labor hours; 48 technical/clerical labor hours.
- C. Subtotal, labor for plan production: \$6,240 (96) man-hours (50) \$/Hr. = \$4,800 (48) man-hours (30) \$/Hr. = 1,440 \$6,240
- D. Subtotal, document production materials & graphics: \$180
- E. Subtotal, miscellaneous expenses (mileage, etc.) \$80
- F. Total estimated spill contingency plan production price (C + D + E): \$6,500

While Riedel cannot guarantee approval of such a plan, Riedel will put forth its best efforts to prepare and submit two (2) drafts of a vessel oil spill contingency plan for review and approval by Washington's Office of Marine Safety, using guidelines available in Chapter 317-10 WAC. We assume that a single plan will be submitted for Brix's 2 Port Angeles vessels (assumes same vessel type) pursuant to WAC 317-10-060 (4) (d). We also assume that Brix can expeditiously provide Riedel with nominal necessary data including:

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	<u>Description</u>	Plan Content Outline Reference
*	Vessel Data	1 d
*	Plan Scope	4 a-c
*	Response Personnel	12 a-e
*	Spill Equipment	13 a-f
*	Communication Equipment	14 a-c
*	Response Operations,	15 a-c
*	Brix Response Role	17 b
*	Onboard Spill Equipment	18 a-b
*	Personnel Training	25
*	Spill Drills	27 a-b
*	Spill Reduction Measures	28 a-b, d
*	Risk Variables	29 a-c

Obviously, the majority of the above data is critical to Riedel's ability to provide a responsive plan.

Thank you for your consideration of our proposal. If you have any questions or require clarifications, please contact me at 286-4656 ext. 662.

Sincerely,

Richard Heymann

Manager, Business Development

DH:tp

EXHIBIT B



Portland Region: P.O. Box 03096 Portland, Oregon 97203-0096 (503) 286-4656 FAX: (503) 283-9703

October 25, 1991

Ms. Chris Haley Manager, Petroleum Barging Brix Maritime Co. 9030 N.W. St. Helens Rd. Portland, Oregon 97283

Dear Ms. Haley:

In response to your request that Riedel Environmental Services Inc. (RES) provide you with a proposal for developing an oil spill contingency plan for ten (10) Brix Maritime vessels operated on the "lower" Columbia River (Portland to Astoria), we at Riedel would propose to prepare the subject plan in accordance with WAC 317-10-010 through 098 requirements (as outlined in our September 26, 1991 letter for a similar plan for your Port Angeles operations). Since Oregon's requirements for preparation of vessel oil spill contingency plans are not yet available, we would use Washington's (WAC) guidelines referenced above and follow guidance set forth in Oregon's Senate Bill 242 for the preparation of the Columbia River vessel oil spill contingency plan.

Because much of the boilerplate developed for the Port Angeles plan could be utilized in the Columbia River plans, we can offer Brix Maritime a package price (for production of both the Port Angeles and Columbia River vessel oil spill contingency plans) of \$12,000 for production of both plans.

Riedel cannot guarantee approval of these plans, but will prepare and submit two (2) drafts (original and revised) to the Oregon Department of Environmental Quality and Washington Office of Marine Safety, as appropriate. The proposed price assumes coverage for ten (10) Brix-vessels on the lower Columbia River and two (2) Brix vessels (of same vessel type) in Port'Angeles. We also assume that Brix can expeditiously provide Riedel with the nominal necessary data specified in our September 26, 1991 proposal to Brix.

Chris Haley October 25, 1991 Page 2

Thank you for your consideration of our proposal. If you have any questions or require clarifications, please contact me at 286-4656 ext. 662.

Sincerely,

Richard Heymann

Regional Manager, Business Development

RH:tp